FINAL REPORT FOR SAAD - TROUSDALE DRIVE SITE

NASHVILLE, DAVIDSON COUNTY, TENNESSEE

Submitted to:

THE SAAD SITE STEERING COMMITTEE

Signal Environmental Services, Inc.

MARCH 1995

de maximis, inc.

301 Oallaher View Road
Suite 227
Knoxville, TN 37919

2 4 1139

March 7, 1995

VIA FACSIMILE AND FEDERAL EXPRESS

Mr. Fred B. Stroud, On-Scene Coordinator
U.S. Environmental Protection Agency, Region IV
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Reference: **Saad Trousdale Drive Site Phase III Removal Action**
Submission of Final Report

Dear Mr. Stroud:

The Saad Site Steering Committee is pleased to submit the Final Report for the above-referenced project. You will be receiving two (2) copies of the report via overnight courier on March 8, 1995 under separate cover directly from Signal Environmental Services, Inc.

If you should have any questions or comments, please contact Mr. Bennie L. Underwood or me at your earliest convenience at (615) 691-5052.

Very truly yours,
de maximis, inc.

Daniel A. Lovingood, P.G.

DAL/jca

/Enclosures Under Separate Cover

cc: Saad Trousdale Site Repository
Bennie L. Underwood

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FINAL REPORT

for

SAAD TROUSDALE DRIVE SITE

3655 Trousdale Drive

Nashville, Davidson County, Tennessee

Prepared for:

The Saad Site Steering Committee

Prepared by

Signal Environmental Services, Inc.

Chattanooga, Tennessee

March 1995

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1.0 Introduction

On September 23, 1994 Signal Environmental Services, Inc. (SIGNAL) was awarded the contract to perform a Phase III Removal Action at the Saad Trousdale Drive Site in Nashville, Tennessee. The Removal Action Work Plan was prepared on behalf of the Saad Site Steering Committee in conjunction with a U. S. EPA Administrative Order by Consent (AOC). The U. S. EPA and the Saad Site Steering Committee agreed to implement the workplan for limited removal activities. This document is the final report on SIGNAL's removal activities performed at the Saad Site as required under the AOC.

1.1 Site History

A detailed summary of previous site activities and data collected can be found in the RA/FI Report submitted to the U. S. EPA, Region IV in March 1992 and the Saad Site RA/FI Phase II report submitted in April 1993.

1.2 General Site Description

The general site description for the purposes of the Phase III Removal Action completed under the AOC is the area to which access was necessary to implement the EPA-approved Phase III Work Plan (August 1994), being the property owned by Ellis and Kathy Saad at 3655 Trousdale Drive, the property owned by Franklin Brick Company at 3567 Trousdale Drive, and the portion of the property owned by CSX that is immediately west of these two properties and to the east of the railroad berm on the east side of the CSX property, in Nashville, Davidson County, Tennessee.

2.0 Scope of Work

A copy of the original and modified work plan is located in Appendix 1.

2.1 Health and Safety Plan

Prior to site work being performed a site specific Health and Safety Plan was prepared and provided to EPA along with personnel training and medical records. A copy of the plan is included in Appendix 2.

2.2 Sampling Work Plan

A sampling plan was prepared prior to site work being performed. This plan was used to select and manage site sampling for the purposes of waste characterization and proper disposal. This plan is included in Appendix 3.

2.3 Site Mobilization/Preparation

2.3.1 Security

Site security was maintained by the use of fencing that had access controlled by a locking gate. A site office was placed inside the gate to afford visual contact with the gate and most of the work area.

2.3.2 Work Zone

Actual work zones inside the fenced area were delineated by the use of flagging, signs, and a construction fence to restrict unauthorized personnel from the work areas.

2.3.3 Decontamination Facilities

Decontamination facilities for personnel were located as shown in Figure 1. A temporary decontamination pad was constructed next to the personnel decontamination area. Pumps, excavation equipment, and PPE were decontaminated prior to off-site removal and demobilization.

2.3.4 Materials Staging

Excavated material was staged on double layers of 6 mil plastic sheeting and covered with 2 layers of plastic. The plastic was anchored using sand bags. A straw/hay berm was placed around the perimeter of each soil stockpile area. The soil staging areas are shown in Figure 1. The staging of soil was done on five original soil pads (Figure 1). The soil on Pad #1 was characterized as non-hazardous and was the soil that was sent to Sanifill. The soil on Pad #2 characteristically hazardous. Pad #2 was split into two sections (Pad #2NH and Pad #2H) because it was felt that one area might have been characteristically non-hazardous.

2.4 Excavation of Soil

The limits of excavation are shown in Figure 1. Excavation was done in two cells. Cell one was located on Franklin Brick property. Cell two was located on the Saad Property. The orientation of the cells are shown in Figure 1. A north to south cross section (Section A-A') of the cells is shown in Figure 2.

Excavated soil was removed and placed in a pile next to the pit. This soil was then carried to the staging area by front end loader. The staging area consisted of five pads. In the staging area the soil was sampled as required by the Sampling Work Plan (Appendix 3).

A total of 826 yd^3 was excavated. In addition to soil some concrete was removed. The concrete was tested and stockpiled. The CCC Group, representing Alcoa, took control of the site for one week and excavated 1000 yd^3 of soil under a separate Administrative Order by Consent. The CCC Group placed the concrete in the bottom of cell #2.

2.5 Backfill

Upon completion of the excavation, the hole was approximately half-filled with clean fill, surge rock from Vulcan Materials, by the direction of Mr. Fred Stroud, EPA On-Scene Coordinator.

2.6 Soil Sampling

Two-four ounce samples were collected for each 15 yd^3 excavated and stockpiled. Fourteen samples were collected per 115 yd^3 of stockpiled soil. Seven were composited to make one sample per stockpile for disposal characterization. The remaining soil was archived for possible additional analyses. The sample locations are shown on Figure 3. In Appendix 4 copies of all soil laboratory analyses are provided. Appendix 5 contains the chains of custodies and sample seals for the laboratory samples.

Analysis of the soil on Pad #1 found it to be non-hazardous. Pads #2, #3, #4, and #5 were found to be characteristically hazardous for disposal purposes. Pad #2 was split into two sections (Pad #2NH and Pad #2H) to further evaluate the characteristics of the stockpile. Pads #2NH, #2H, # 3, #4 and #5 were resampled with the laboratory analyses sent to Specialized Assays Environmental of Nashville as a recheck (Samples R001-R0035). R001-R007 were consolidated for one analysis. R008-R014 were consolidated into one sample. R015-R021 were consolidated for a single analysis. R022-R028 were consolidated into one sample. The last analysis was from the consolidation of samples R029-R035. Two samples were also sent to Analytical Laboratory in Chattanooga as another recheck (Samples R001-R007 were consolidated for one analysis. R015-R021 were consolidated into the second laboratory sample for analysis). Figure 4 shows the resample locations. Table 1A and 1B is a summary of soil samples and resamples and how they were consolidated for analysis. Analysis of resamples confirmed previous results.

2.7 Decontamination/Excavation Water

Runoff water and decontamination water pumped from the excavation were collected in a 20,000 gallon frac tank located on the site between the office trailer and the excavation pit. The water was sampled, characterized, and shipped to Laidlaw Environmental Services, Inc. (Antioch, Tn.) for disposal. Copies of the manifests (W001-W004), laboratory characterization (Sample SAD11/3001W), and chain of custody are provided in Appendix 6.

2.8 Debris/Soil Disposal

The soil that was excavated was characterized for disposal. Approximately 222 yd^3 of characteristically non-hazardous and 685.04 tons of potentially characteristically hazardous soil was disposed. Disposal of the latter was based on time and cost considerations and no further effort was made to segregate potentially non-hazardous portions of the stockpiles. The characteristically hazardous soil was shipped to Chemical Waste Management, Inc. (29 shipments to Fort Wayne, Ind.) and Laidlaw Environmental Services, Inc. (3 shipments to Pinewood, S.C.). The non-hazardous soil was shipped to Sanifill of Tennessee (10 shipments to Lewisburg, Tn.). Table 2 is a summary of the waste shipments with manifest numbers made to offsite disposal facilities. The soil manifests are located in Appendix 7.

3.0 Air Sampling

On November 16, 1994 Greg Veal, Saad Superfund Site Manager, received odor complaints from Mr. Tot McCullough, Division Manager of Franklin Brick Co. Evidently the excavation work on this project had encountered an area of material that emitted a strong odor. When the area with the odor was encountered, SIGNAL employees donned level C respirator protection. Employees working outside in the Franklin Brick yard complained that they were getting headaches from the odors in the air. The area of concern seems to be off the north west corner of the Franklin property and along the Saad property line.

On November 17, 1994, Michael R. Matthews, Corporate Health and Safety Officer investigated the situation. An air pump with carbon cartridge was set up on the fence between the Saad project and Franklin Brick 3 feet above ground and 15 feet from the Franklin Brick building. Shortly after setting up the pump, excavation at the site began again and the volatile (phenolic like) odor was again detected. The sampling pump was operated for four hours and HNU Photoionization Meter readings were taken hourly at the fence line and at the edge of the pit while the odor was being detected. The HNU readings are summarized in Table 3.

After four hours, the cartridge was removed and brought to Analytical Industrial Research Laboratory in Chattanooga for volatiles and phenols analysis. The results of the air sample analysis indicated that only six compounds were detected in the air sample: 1,2-dichloroethene (0.172 ug/l), 1,1,1-trichloroethane (0.004 ug/l), carbon tetrachloride (0.029 ug/l), trichloroethene (0.032 ug/l), 4-methyl-2-pentanone (0.010 ug/l), and toluene (0.016 ug/l). None of these compounds were in a concentration significant enough to warrant further action. The odor problem did not occur again. Copies of the laboratory analyses, sampling equipment calibration, and chain of custody for the air sample are included in Appendix 8.

4.0 Site Permits

In Appendix 9 copies of the various local permits that were obtained for this site work are presented.

5.0 Demobilization

SIGNAL completed all work under the AOC in late December 1994, except for pumping the

remaining water from the excavation, backfilling the excavation and replacing the railroad spur, and was instructed by EPA to delay completion of this remaining work. On January 21, 1995 EPA provided instructions that pumping the remaining water from the excavation, backfilling the excavation and replacing the railroad spur would not be required under the workplan, and to demobilized from the site. SIGNAL completed demobilization on January 21, 1995 (Appendix 10).

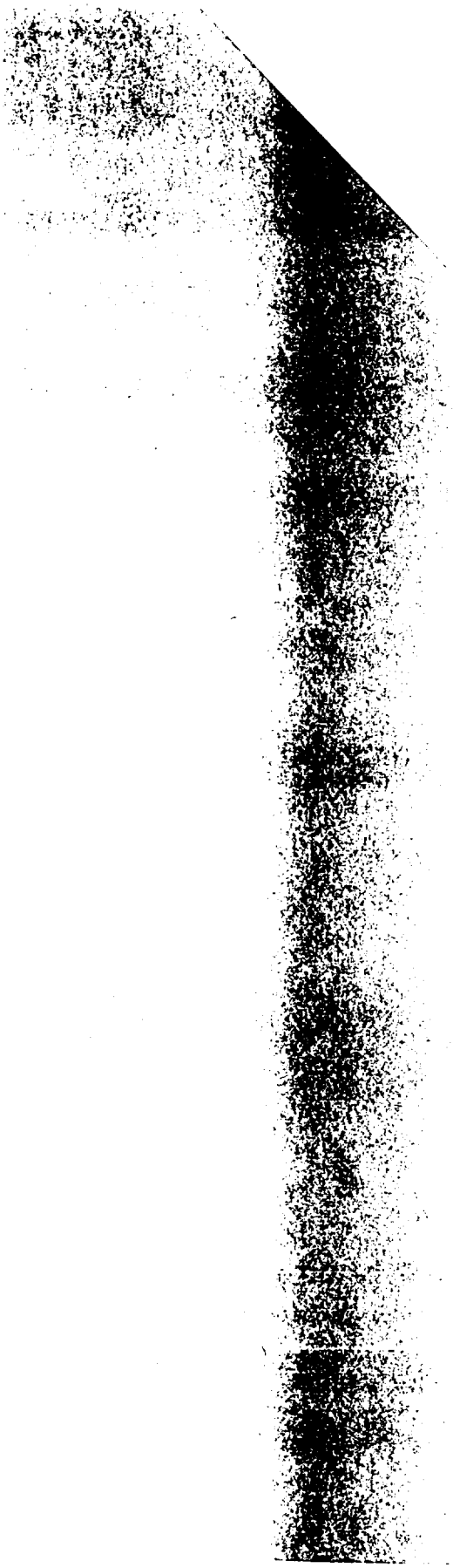


FIGURE 2
SAAD SITE EXCAVATION CELLS 1 AND 2
CROSS-SECTION A-A'

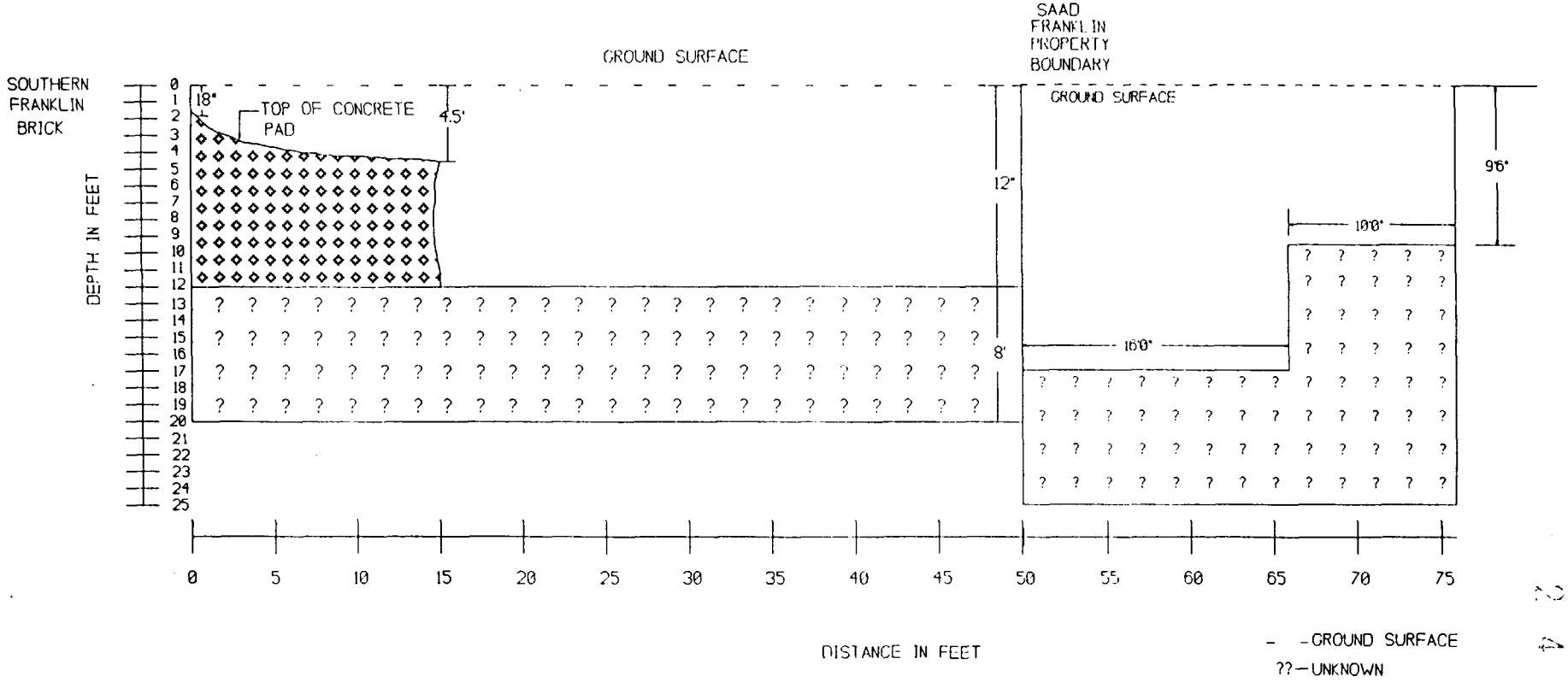


FIGURE 3
Soil Sample Locations of Stockpiles
Saad Site, Fall 1994

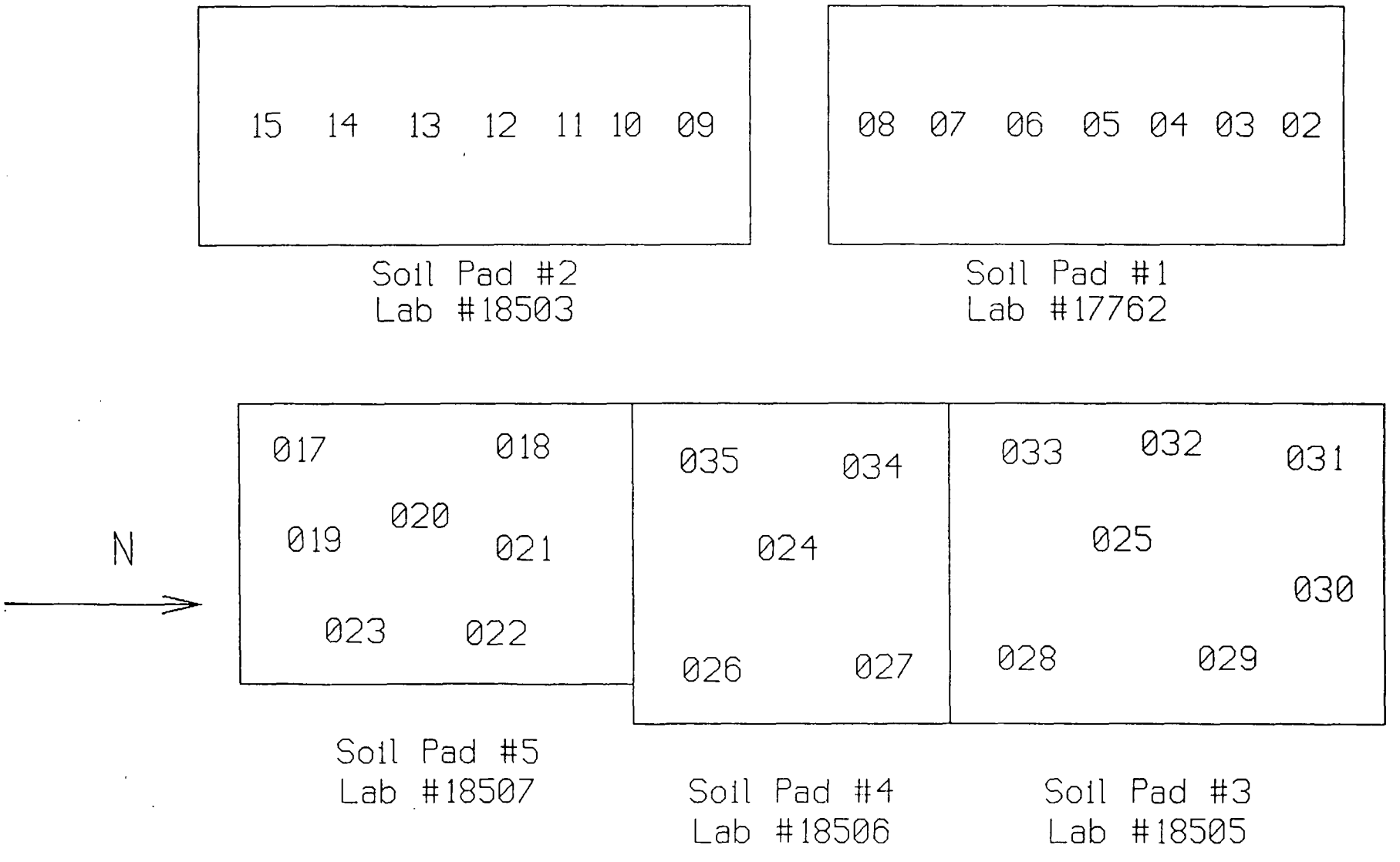
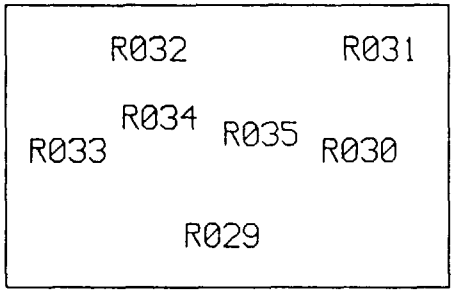
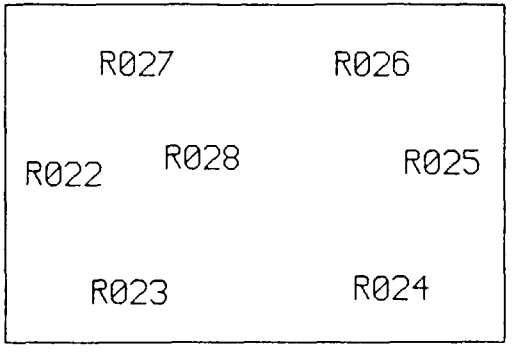


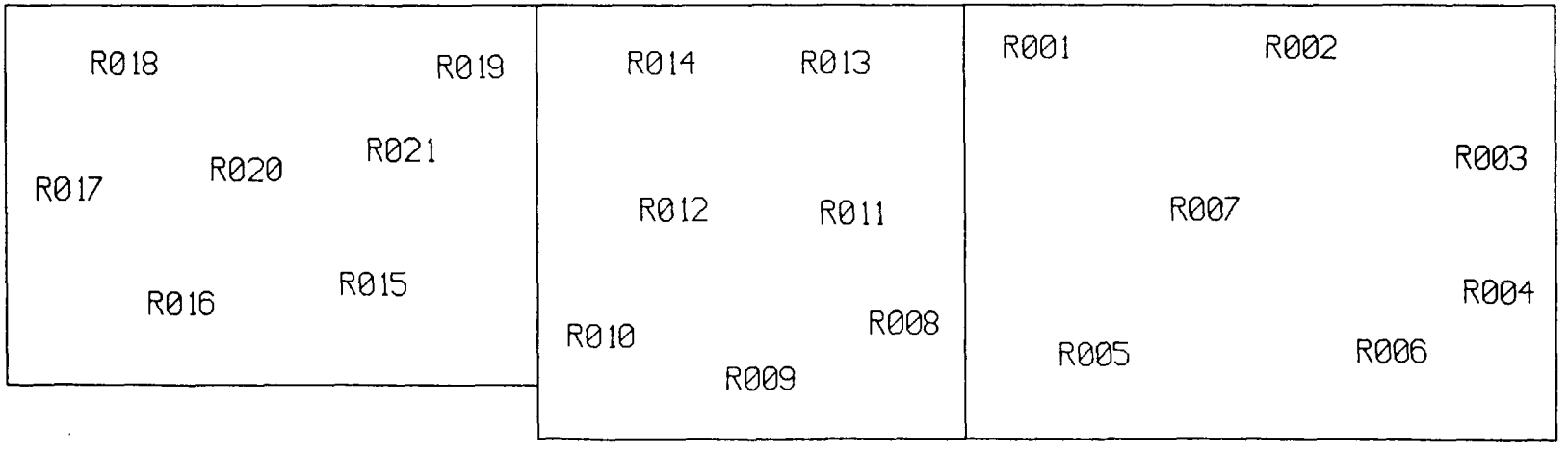
FIGURE 4
Resample Locations of Stockpiles
Saad Site, December 1994



Soil Pad #2NH



Soil Pad #2H



Soil Pad #5

Soil Pad #4

Soil Pad #3

TABLE 1A: SAAD SITE SOIL SAMPLE SUMMARY
FALL 1994

SAMPLE ID NO.	DISPOSITION
SAD10/27001A	Analyzed to characterize soil for disposal. (Lab #17431 from Pad #1)
SAD10/27001B	Held for future analysis if needed. (Lab #17431 from Pad #1)
SAD11/3002A&B	2A-8A Consolidated for one analysis and 2B-8B held for possible future analysis. Samples from Pad #1 (Lab #17762).
SAD113003A&B	
SAD11/3004A&B	
SAD11/3005A&B	
SAD11/3006A&B	
SAD11/3007A&B	
SAD11/3008A&B	
SAD11/3009A&B	9A-15A Consolidated for one analysis and 9B-15B held for possible future analysis. Samples from Pad #2 (Lab #18503).
SAD11/3010A&B	
SAD11/3011A&B	
SAD11/3012A&B	
SAD11/17013A&B	
SAD11/17014A&B	
SAD11/17015A&B	
SAD11/17016A&B	Laboratory analysis of concrete. (Lab #18504)
SAD11/17017A&B	17A-23A Consolidated for one analysis and 17B-23B held for possible future analysis. Samples from Pad #5 (Lab #18507).
SAD11/17018A&B	
SAD11/17019A&B	
SAD11/17020A&B	
SAD11/17021A&B	
SAD11/17022A&B	
SAD11/17023A&B	

TABLE 1A cont.	
SAD11/17024A&B	24A, 26A, 27A, 34A, 35A, consolidated for one analysis. 24B, 26B, 27B, 34B, 35B held for possible future analysis. Samples from Pad #4 (Lab #18506).
SAD11/17026A&B	
SAD11/17027A&B	
SAD11/17034A&B	
SAD11/17035A&B	
SAD11/17025A&B	25A, 28A, 29A, 30A, 31A, 32A, 33A consolidated for one analysis. 25B, 28B, 29B, 30B, 31B, 32B, 33B held for possible future analysis. Samples from Pad #3 (Lab #18505).
SAD11/17028A&B	
SAD11/17029A&B	
SAD11/17030A&B	
SAD11/17031A&B	
SAD11/17032A&B	
SAD11/17033A&B	

TABLE 1B: SAAD SITE SOIL RESAMPLE SUMMARY DECEMBER 1994

SAMPLE ID NO.	LAB NAME	DISPOSITION
R001	Analytical Industrial Research Laboratories, Inc.	R001-R007 Consolidated for one analysis. Samples from Pad #3 (Lab #19068).
R002		
R003		
R004		
R005		
R006		
R007		
R015	Analytical Industrial Research Laboratories, Inc.	R015-R021 Consolidated for one analysis. Samples from Pad #5 (Lab #19069).
R016		
R017		
R018		
R019		
R020		
R021		
R001	Specialized Assays Environmental	R001-R007 Consolidated for one analysis. Samples from Pad #3 (Lab #94-A063854).
R002		
R003		
R004		
R005		
R006		
R007		

TABLE 1B cont.		
R008	Specialized Assays Environmental	R008-R014 Consolidated for one analysis. Samples from Pad #4 (Lab #94-A063855).
R009		
R010		
R011		
R012		
R013		
R014		
R015	Specialized Assays Environmental	R0015-R021 Consolidated for one analysis. Samples from Pad #5 (Lab #94-A063856).
R016		
R017		
R018		
R019		
R020		
R021		
R022	Specialized Assays Environmental	R022-R028Consolidated for one analysis. Samples from Pad #2H (Lab #94-A063857).
R023		
R024		
R025		
R026		
R027		
R028		
R029	Specialized Assays Environmental	R029-R035 Consolidated for one analysis. Samples from Pad #2NH (Lab #94-A063858).
R030		
R031		
R032		
R033		
R034		
R035		

TABLE 2: SAAD OFF-SITE WASTE SHIPMENT SUMMARY FALL 1994

Type	Manifest #	Waste Stream	Designated Facility Name	Total Quantity*
Non-hazardous	W0001	Pit water	Laidlaw Environmental Services[1]	5000 gal
Non-hazardous	W0002	Pit water	Laidlaw Environmental Services[1]	5000 gal
Non-hazardous	W0003	Pit water	Laidlaw Environmental Services[1]	5000 gal
Non-hazardous	W0004	Pit water	Laidlaw Environmental Services[1]	5000 gal
Hazardous	H0001	Soil	Chemical Waste Management Inc.[2]	46000 lb
Hazardous	H0002	Soil	Chemical Waste Management Inc.[2]	46000 lb
Hazardous	H0003	Soil	Chemical Waste Management Inc.[2]	46000 lb
Hazardous	H0004	Soil	Chemical Waste Management Inc.[2]	48000 lb
Hazardous	H0005	Soil	Chemical Waste Management Inc.[2]	46000 lb
Hazardous	H0006	Soil	Chemical Waste Management Inc.[2]	47000 lb
Hazardous	H0007	Soil	Chemical Waste Management Inc.[2]	47000 lb
Hazardous	H0008	Soil	Chemical Waste Management Inc.[2]	48000 lb
Hazardous	H0009	Soil	Chemical Waste Management Inc.[2]	47000 lb
Hazardous	H0010	Soil	Chemical Waste Management Inc.[2]	46000 lb
Hazardous	H0011	Soil	Chemical Waste Management Inc.[2]	47000 lb
Hazardous	H0012	Soil	Chemical Waste Management Inc.[2]	44000 lb
Hazardous	H0013	Soil	Chemical Waste Management Inc.[2]	46000 lb
Hazardous	H0014	Soil	Chemical Waste Management Inc.[2]	48000 lb
Hazardous	H0015	Soil	Chemical Waste Management Inc.[2]	47000 lb
Hazardous	H0016	Soil	Chemical Waste Management Inc.[2]	48000 lb
Hazardous	H0017	Soil	Chemical Waste Management Inc.[2]	46000 lb
Hazardous	H0018	Soil	Chemical Waste Management Inc.[2]	47000 lb
Hazardous	H0019	Soil	Chemical Waste Management Inc.[2]	44000 lb
Hazardous	H0020	Soil	Chemical Waste Management Inc.[2]	48000 lb
Hazardous	H0021	Soil	Chemical Waste Management Inc.[2]	47000 lb

TABLE 2 cont.				
Hazardous	H0022	Soil	Chemical Waste Management Inc.[2]	47000 lb
Hazardous	H0023	Soil	Chemical Waste Management Inc.[2]	40000 lb
Hazardous	H0024	Soil	Chemical Waste Management Inc.[2]	47000 lb
Hazardous	H0025	Soil	Chemical Waste Management Inc.[2]	40000 lb
Hazardous	H0026	Soil	Chemical Waste Management Inc.[2]	48000 lb
Hazardous	H0027	Soil	Chemical Waste Management Inc.[2]	44000 lb
Hazardous	H0028	Soil	Chemical Waste Management Inc.[2]	42500 lb
Hazardous	H0029	Soil	Chemical Waste Management Inc.[2]	48000 lb
Hazardous	H0030	Soil	Laidlaw Environmental Services[3]	45000 lb
Hazardous	H0031	Soil	Laidlaw Environmental Services[3]	44000 lb
Hazardous	H0032	Soil	Laidlaw Environmental Services[3]	44000 lb
Non-hazardous	08936	Soil	Sanifill of Tennessee[4]	22 tons
Non-hazardous	08937	Soil	Sanifill of Tennessee[4]	22 tons
Non-hazardous	08938	Soil	Sanifill of Tennessee[4]	22 tons
Non-hazardous	08939	Soil	Sanifill of Tennessee[4]	22 tons
Non-hazardous	08940	Soil	Sanifill of Tennessee[4]	22 tons
Non-hazardous	08941	Soil	Sanifill of Tennessee[4]	22 tons
Non-hazardous	08942	Soil	Sanifill of Tennessee[4]	22 tons
Non-hazardous	08943	Soil	Sanifill of Tennessee[4]	22 tons
Non-hazardous	08944	Soil	Sanifill of Tennessee[4]	22 tons
Non-hazardous	08945	Soil	Sanifill of Tennessee[4]	20 tons

*Estimated amount shipped

[1]Laidlaw Environmental Services (WT), Inc.
1640 Antioch Pike
Antioch, Tennessee 37013
Actual amount shipped = 20,000 gal

[2]Chemical Waste Management, Inc.
4636 Adams Center Road
Fort Wayne, Indiana 46806
Actual amount shipped = 621.77 tons

[3]Laidlaw Environmental Services of South Carolina, Inc.
Route 1, Box 255
Pinewood, South Carolina 29125
Actual amount shipped = 63.27 tons

[4]Sanifill of Tennessee
Cedar Ridge Landfill
2340 Mooresville Highway
Lewisburg, Tennessee 37091
Actual amount shipped = 222 yd^3

TABLE 3: HNU Reading, ppm
Saad Site, November 17, 1994

Time	Franklin Brick Fence	Saad Excavation Pit
7:45 a.m.	1.6	3 - 5
8:15 a.m.	1.5	4 - 6
9:05 a.m.	1.7	4 - 6
9:56 a.m.	1.8	5 - 6
11:45 a.m.	8 - 10	5.9

NOTE: Ranges with HNU readings are due to a slight breeze that periodically interfered with steady readings. The wind was blowing in the direction of the pit to the fence.

APPENDIX I

EXHIBIT A

SAAD SITE
PHASE III REMOVAL ACTION
WORK PLAN

Submitted by:

Saad Site Steering Committee

September 20, 1994

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1.0 INTRODUCTION

This Removal Action Work Plan has been prepared on behalf of the Saad site Steering Committee (Committee) in conjunction with the Administrative Order by Consent (AOC), EPA Docket No. 95-1-C, dated October 5, 1994, to complete removal activities at the site. This Work Plan is based on information developed during Phase I and Phase II site removal and characterization investigations. The U.S. EPA and the committee have agreed to implement this Work Plan for the limited and discrete removal activities described herein.

1.1 Background/History and Previous Removal Activities

A detailed/description of past activities associated with Saad Site removal and site characterization activities has been provided in the Removal Action/Field Investigation Report (RA/FI) submitted to the U.S. EPA, Region IV in March 1992 and the Saad Site RA/FI Phase II report submitted in April 1993. A detailed summary of the combined removal activities can be found in the RA/FI Phase II report.

1.2 General Site Description

The general site description for the site for the purposes of this Work Plan is the area to which access is necessary to implement this Work Plan, being the property owned by Ellis and Kathy Saad at 3655 Trousdale Drive, the property owned by Franklin Brick Company at 3567 Trousdale Drive, and the portion of the property owned by CSX that is immediately to the west of these two sites and to the east of the railroad berm on the east side of the CSX property, all in Nashville, Tennessee.

1.3 Objectives

The objective of this Work Plan is to detail the project scope to address additional discrete soil and debris removal activities on the Franklin Brick property in the area to the west of the Franklin Brick building as specified in Section 3.0 (see Figure 1).

1.4 Project Organization

The general Project Organization for performance of the proposed removal action will remain the same as described in Section 1.5 and Figure 1-3 of the Removal Action Field Investigation Work Plan, Phase II, for the Saad Trousdale Drive Site, Nashville, Tennessee, July 1992. Completion of this discrete removal action will complete removal activities at the Saad Site.

1.5 Site Management

General Site Management responsibilities as presented in the RA/FI Phase II, Section 1.6, page 1-6 of the Removal Action Field Investigation Work- Plan, Phase II, for the Saad Trousdale Drive Site, Nashville, Tennessee, July 1992 will remain the same for the proposed removal activity.

1.6 Health and Safety/Quality Assurance and Control

The Health and Safety/Quality Assurance and Control activities associated with the removal action will conform to Section 1.8, of the Removal Action Field Investigation Work Plan, Phase II, for the Saad Trousdale Drive Site, Nashville, Tennessee, July 1992 to include Appendices I, Quality Assurance Project Plan, and Appendix II, Revised Health and Safety Plan.

1.7 Contractor

All references herein, or in documents referred to herein, to "Contractor", "Project Manager" or "Site Manager" shall refer to Signal Environmental Services, Inc., or alternate chosen by the Committee.

2.0 MOBILIZATION/SITE PREPARATION

Site mobilization and preparation prior to initiating the Work Plan Tasks will include and/or require the following:

(1) Written approval of the Removal Action Work Plan from EPA.

(2) The current lessee of the Saad Building and property will be required to clear the Saad property of any equipment that may obstruct the removal action. The Saad property will be used as the staging area for excavated soils and debris.

(3) Signed access agreements, as appropriate, to allow performance of work plan tasks.

(4) Additional security fencing, gates, and locks will be installed as necessary to restrict access to the site and to allow effective equipment and vehicles access/egress for the site activities.

(5) Construction of designated fluid holding tank area for accumulated water and excavation associated decontamination waters.

(6) Removal of a portion of the existing rail line on the Franklin Brick property and the placement of a rail stop to protect the removal action associated personnel and equipment and allow continuous business activities to be performed at the Franklin Brick Yard. This activity will be performed by an approved contractor. Replacement of rails will be performed by a contractor approved by Franklin Brick and CSX, with CSX personnel providing installation inspection, as appropriate.

2.1 Transition and Security

Upon the later of 30 days after the Committee receives notice of EPA's execution of the AOC, Contractor will initiate mobilization of the necessary personnel, equipment, and materials to facilitate temporary site security necessary to begin site activities. Site security for the proposed field activities will be established following the removal of all equipment currently stored on site by the current tenant/owner of the property. Site security measures will include the following:

- Temporary fencing and placarding as necessary to restrict site access.
- Establishment of the Site command post which will be the designated entry into the Site for all site personnel, visitors, etc.

Permanent security measures now in place will be maintained during the work, to include permanent perimeter fencing, security lighting, and placarding.

2.2 Site Work Zone Definition

The Work Zones and associated levels of personnel protection have been previously provided in Section 1.7 of the July 1992 RA/FI Phase II Work Plan. Areas in which site excavation and staging activities are being performed will be designated as the Exclusion Zone.

The Contaminant Reduction Zone (CRZ) is the transition area between the potentially contaminated area and the clean area. This zone will include all decontamination areas. Multiple personnel and equipment decontamination areas are expected during project implementation.

The Support Zone is the location of administration and other support functions needed to keep the operations in the Exclusion Zone and Contaminant Reduction Zone running smoothly.

2.3 Decontamination Facilities

Decontamination Facilities/Methods - Initial decontamination areas will be located in the general area indicated in Figure 2. Multiple decon areas are anticipated due to site excavation and debris stating activities. Water and electricity to support activities will be obtained from the Saad building if possible. If necessitated by space limitations or access restrictions, the decontamination areas will be relocated.

2.4 Materials Handling and Staging

Materials handling and staging will be a significant problem associated with this removal activity. The materials staging map, Figure 2, has been prepared to allow for both accumulation of soils and debris, effective movement of both excavation and staging/loading equipment, and a designated clean area for the loading of debris for off site disposal eliminating constant decontamination of equipment.

Additional space has been left for potential segregation activities, movement of any debris that, based on TCLP analysis is characteristically hazardous for waste disposal.

All debris will be placed on and covered with plastic sheeting. A berm will be constructed with straw/hay for each soil/debris pile. These bermed areas will be reused during the course of this removal action.

2.5 Field Office Facilities

For purposes of this Work Plan, it is assumed that the former LTD Body Shop building will not be available for use as headquarters for operations and for storage of equipment and materials. Therefore, a field headquarters will be installed as appropriate.

3.0 EXCAVATION/REMOVAL PLAN

Removal activities will consist of the excavation of an area on the Franklin Brick property in the area of the former settling basin. The lateral limits of the excavation area are shown on Figure 1 and are as follows:

The area is bounded on the South by the bedrock/concrete washout basin outcropping and that area previously evaluated by past borings B1 and B2 (RA/FI - Phase I) that determined minimal residuals.

The area is bounded on the east side by the Franklin Brick building with a ten (10) foot standoff to prevent potential structural damage to the building. Due to the nature of the fill material, shoring has not been provided for in this plan.

The area is bounded on the west by the previous Franklin Brick Trench (RA/FI - Phase II) from which materials were removed and replaced with clean fill, and by any necessary standoff from the CSX railroad berm.

The area is bounded on the north side by the Saad/Franklin Brick property boundary.

The vertical limit of excavation will be established by the first to be encountered of the following:

- The base of any smear zone;
- The surface of the perched water table after the dewatering efforts described in the paragraph below;
- The practicability limit based on side wall stability and associated potential impacts on structural integrity of the adjoining structures (10 ft. stand-off from the berm and minimum 10 ft. stand-off from the Franklin Brick building); and/or,
- Bedrock.

Dewatering efforts will be made for the purpose of exposing any smear zone for excavation. Dewatering efforts will not proceed beyond what is practicable, the determination of which shall include consideration of results of the dewatering efforts and cost. This determination will be made in the field jointly by EPA's OSC and the Committee's Project Coordinator, and each may designate another authorized representative for this purpose. If these representatives are not able to agree, the dispute resolution procedure of the AOC shall apply and additional dewatering will not be conducted during the negotiation period. The Committee will not be required to continue dewatering efforts in excess of 25,000 gallons. However, if significant progress is being made in the dewatering effort, EPA may continue the process and then complete the work required pursuant to this Work Plan. The Committee acknowledges that EPA has indicated that it will seek to recover its costs for this work.

The maximum volume to be excavated and removed from the site for off-site disposal is 800 cubic yards. In order to provide flexibility for on-site decisions and with the concurrence of the EPA on-site representative, the vertical (subject to the foregoing) and/or lateral (i.e. to the north) extent/direction of excavation as detailed on Figure 1 may be altered, provided that the established maximum volume is not exceeded.

Based on previous analytical and disposal activities, excavated soil/debris is anticipated to be characteristically non-hazardous. As a result, segregation and decontamination of boulders and debris is not planned. Contingent upon actual disposal requirements and associated costs, segregation and cleaning may be conducted, with cleaned materials staged as fill for the excavation.

3.1 Excavation Methodology

Excavation of the area will proceed from a south to north direction. Excavation will not be performed in a lift methodology. Excavation will be performed with a trackhoe with a known bucket size. A bucket with a one yard (1 yard) capacity will be the minimum size allowed on-site. Estimated volumes will be based on the known bucket size.

The excavated materials will be deposited on the Saad Site for transportation to the tentative staging areas (see Figure 2) by the use of a track-loader. Due to the previous excavation performed at the site and the associated "soft spots", rubber tired vehicles/equipment will not be allowed in the active area.

Each soils stating area has been sized to accommodate approximately one hundred fifteen (115) cubic yards (yd^3) of debris/soils. Rolloffs will not be used for soil/debris storage.

Soils/debris will be staged in such an order and manner to allow continuous excavation and simultaneously maintain additional work areas that may be required for non-scheduled segregation, resampling, etc. Actual staging locations and number will be based on site specific conditions.

3.2 Post Excavation

After all excavation activities have been concluded, the excavated pit will be backfilled and mechanically compacted to existing surface grade. The back fill material will be chosen based on both workability and cost. The Franklin Brick rail spur will be replaced and the wheel stop re-installed in its original position.

3.3 Stockpile/Soils Sampling

Two four ounce samples will be collected for each 15 yd^3 excavated and stockpiled, resulting in 14 samples per 115 yd^3 stockpile. Seven (7) of the samples will be composited to make one (1) sample per stockpile for waste disposal characterization using TCLP, full scan analysis. The additional seven (7) samples will be archived at the selected laboratory for a maximum of 90 days. In the event additional

analysis is required, sufficient sample will be available for another composited sample and corresponding analysis. Sampling and analysis plan modifications may be required to meet specific disposal facility requirements.

No characterization, beyond waste disposal requirement, sampling will be performed in conjunction with this removal action. Sampling will be continuous during all excavation/stockpiling activities. Samples will be placed on ice and submitted to the laboratory on a daily basis to expedite off site disposal.

3.4 Decontamination/Excavation Water

Any waters generated during excavation activities will be collected in an appropriate vessel. The accumulated fluids will be sampled for waste disposal analysis for off-site disposal as appropriate and in accordance with U.S. EPA's off-site policy.

3.5 Debris/Soils Loading

Soils and debris will be loaded on trucks for transportation to an appropriate disposal facility following TCLP analysis and manifesting. The trucks used for transportation will have a minimum of twenty (20) cubic yards capacity and 40,000 lb or greater weight limitation.

It is recommended that the trucks are constructed with steel beds, not aluminum, to prevent potential damage to the truck body due to large boulders and other debris. Trucks will be loaded in the designated loading area. A maximum of two trucks will be allowed on site for loading at any one time.

Loading will be performed with a track loader in a manner and an order consistent with laboratory disposal analysis. Trucks will not be decontaminated prior to leaving the site as they will not enter the exclusion zone. To the extent practicable, trucks used for disposal transportation will be delegated to only Saad Site activities and will not be allowed to perform similar simultaneous duties for other clients.

Time/trip tickets will be maintained by the Project Manager. Loading activities will occur at specific intervals to correlate with maximizing loading/disposal efficiency based on disposal analysis and continue until all approved waste has been removed from the site. It is anticipated that loading/disposal activities will occur at least once per week dependent on analysis, disposal firm approvals, and truck availability.

3.6 Other Considerations

During excavation, drums and/or drum bones may be encountered. In the event that drums are found, the site personnel will initiate the appropriate actions and activities previously submitted per the 1992 RA/FI Phase II Work Plan, Section 4.0, Subsection 4.2.2, 4.2.4, 4.3.3, 4.3.6 and 4.4.1. Figure 4-2 of the Phase II Work Plan, the decision tree for characterization/classification of excavated drums, will be used for drum project activity excavation. All applicable sections of the revised health and safety plan previously submitted in the 1992 FA/FI, Phase II, Work Plan for drum activities will be implemented.

4.0 DISPOSAL

Disposal of materials resulting from implementation of this Work Plan will be coordinated with the U.S. EPA and TDEC, and conducted in accordance with disposal facility requirements. Disposal will be performed in compliance with U.S. EPA's off-site policy.

5.0 SCHEDULE

Removal project activities are to be initiated as provided in Section 2.1. All time is estimated on a five-day work week. The schedule will be adjusted in accordance with delays caused by force majeure as defined in Section VI-26 of the AOC and as appropriate in the event of any of the following schedule contingencies.

- Additional activities associated with debris segregation required by either the waste disposal facility or waste hauler.
- Inadequate availability and number of waste haulers contracted for disposal transportation.
- Additional waste disposal sampling.
- Waste disposal schedule changes due to disposal facility requirements and capacity issues, including those occasioned by having to treat or dispose of any excavated material or removed groundwater as a hazardous waste.
- Weather that does not permit work to be performed.

The tentative schedule is as follows (days are working days):

Mobilization - 5.0 days	(1 week)
Excavation/stockpiling/sampling - 60 days	(12 weeks)
Disposal (continuous with site activities) - 70 days	(14 weeks)
Demobilization - 5.0 days	(1 week)
RA/FI Phase III Report - (Post Disposal) - 30 days	(6 weeks)
Total anticipated time for site activities - 75 days	(15 weeks)

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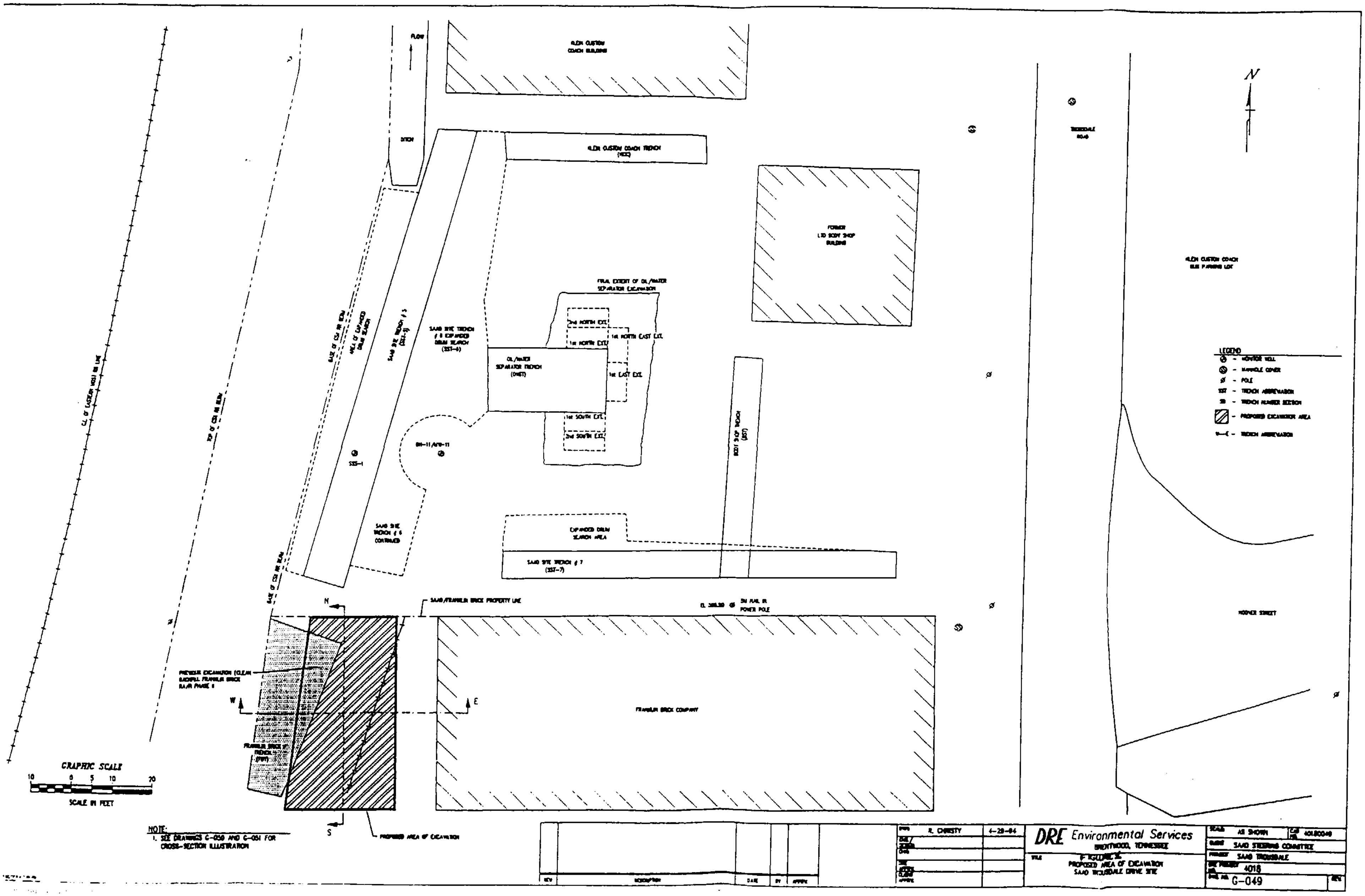
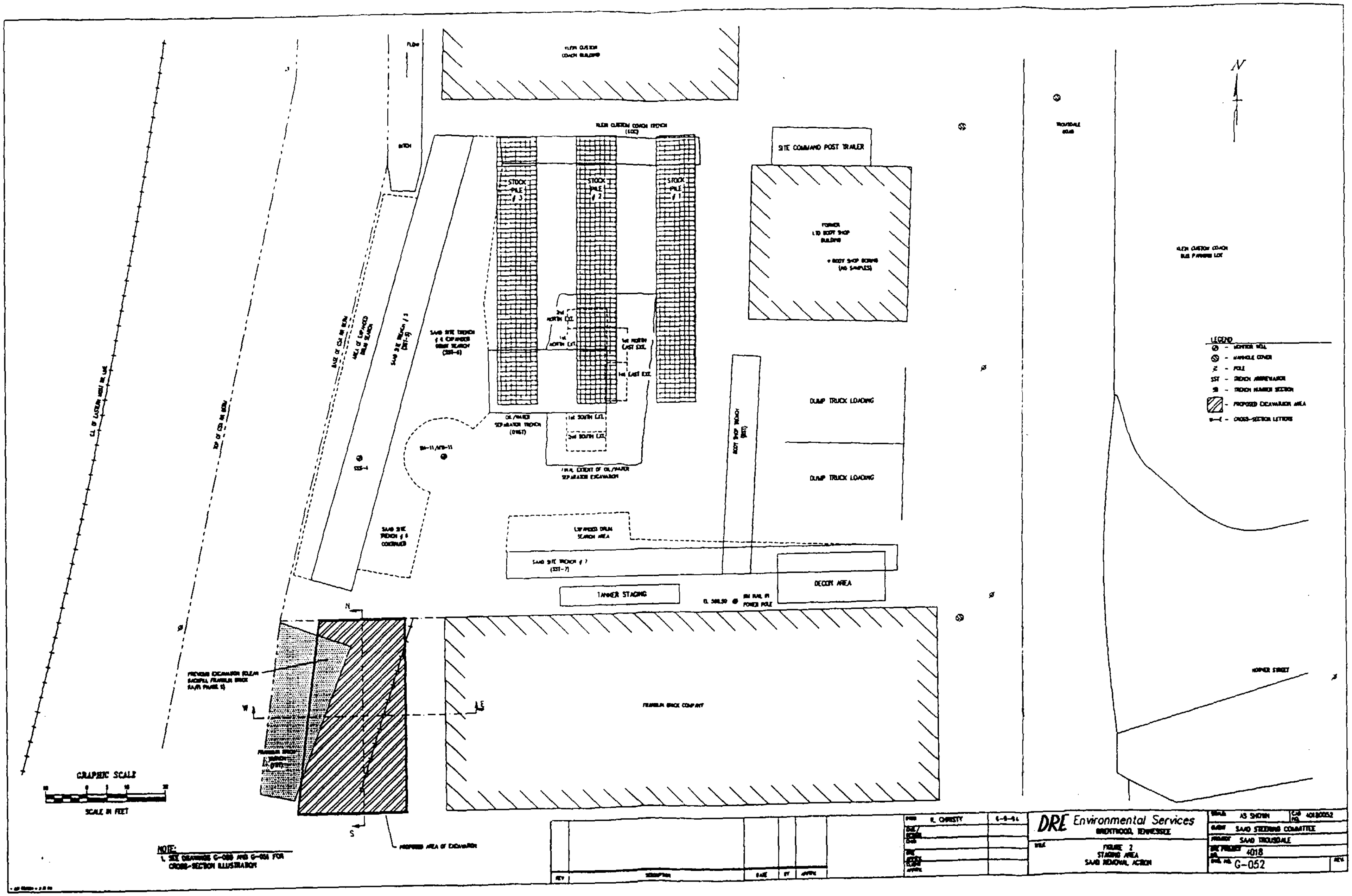

ALLEN CUSTOM COACH BUILDING
FLOW
DITCH
ALLEN CUSTOM COACH TRENCH (ACC)
FORMER LTD BODY SHOP BUILDING
TROUSDALE ROAD
ALLEN CUSTOM COACH BUS PARKING LOT
FINAL EXTENT OF OIL/WATER SEPARATOR EXCAVATION
2nd NORTH EXT.
1st NORTH EXT.
1st NORTH EAST EXT.
1st EAST EXT.
1st SOUTH EXT.
2nd SOUTH EXT.
OIL/WATER SEPARATOR TRENCH (OWST)
BODY SHOP TRENCH (BST)
SSS-1
EXPANDED DRUM SEARCH AREA
SAAD SITE TRENCH # 7 (SST-7)
SAAD/FRANKLIN BRICK PROPERTY LINE
FRANKLIN BRICK COMPANY
HODNER STREET
PROPOSED AREA OF EXCAVATION
LEGEND
MONITOR WELL
MANHOLE COVER
POLE
TRENCH ABBREVIATION
PROPOSED EXCAVATION AREA
GRAPHIC SCALE
10 0 5 10 20
SCALE IN FEET
NOTE:
1. SEE DRAWINGS G-050 AND G-051 FOR CROSS-SECTION ILLUSTRATION
R. CHRISTY
4-29-04
DRE Environmental Services
BRENTWOOD, TENNESSEE
PROPOSED AREA OF EXCAVATION
SAAD TROUSDALE DRIVE SITE
AS SHOWN
SAAD STEERING COMMITTEE
SAAD TROUSDALE
4018
G-049


SITE COMMAND POST TRAILER
STOCK PILE # 3
STOCK PILE # 2
STOCK PILE # 1
DUMP TRUCK LOADING
DUMP TRUCK LOADING
TANKER STAGING
DECON AREA
FORMER L.D. BODY SHOP BUILDING
LEGEND
PROPOSED EXCAVATION AREA
CROSS-SECTION LETTERS
GRAPHIC SCALE
SCALE IN FEET
PROPOSED AREA OF EXCAVATION
NOTE:
1. SEE DRAWINGS G-080 AND G-081 FOR CROSS-SECTION ILLUSTRATION
R. CHRISTY
DRE Environmental Services
BRENTWOOD, TENNESSEE
FIGURE 2
STAGING AREA
SAAD REMOVAL ACTION
AS SHOWN
SAAD STEERING COMMITTEE
SAAD TROUSDALE
4018
G-052

2 4 1175

Saad Trousdale Drive Site
Phase III Removal Action Work Plan
Date: 8 November 1994

Pursuant to the Administrative Order by Consent Section VI, Paragraph 17 *(October 1994)* and in accordance with the approved Phase III Removal Action Work Plan (Section 3.0), the following defines the agreed upon modifications to the work:

The lateral extent/direction of the excavation will be modified as follows:

> The excavation moving south from the Saad property will be terminated 17 feet from the southerly endpoint defined in the approved Work Plan. The excavation will be continued to the north from the Saad southern property boundary for 17 feet or at the direction of the OSC up to 27 feet, maintaining the dimensions, off-sets, volume criteria, and other limitations specified in the Work Plan.

Leslie W. Cobb for Fred Stroud
USEPA OSC

Bennie L. Underwood for
Saad Site Steering Committee
Project Coordinator

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Work Modification No. 2
Saad Trousdale Drive Site
Phase III Removal Action Work Plan
Date: 15 November 1994

Pursuant to the Administrative Order by Consent Section VI, Paragraph 17 (October 1994) and in accordance with the approved Phase III Removal Action Work Plan (Section 3.0), the following defines the agreed upon modifications to the work:

The vertical extent of the excavation will be modified as follows:

The excavation moving north from the Saad property southern boundary will be extended to a vertical limit (depth) not to exceed ~~16~~ 17 ft bls. as directed by the OSC. The excavation will be continued longitudinally to the north from the Saad southern property boundary for up to 27 feet depending on the OSC's depth direction while maintaining the dimensions, off-sets, volume criteria, and other limitations specified in the Work Plan.

Fred B. Stoop
USEPA OSC

Bennie L Underwood
Saad Site Steering Committee
Project Coordinator

APPENDIX 2

HEALTH AND SAFETY PLAN
AND CONTINGENCY PLAN
SAAD - TROUSDALE DRIVE SITE
NASHVILLE, TENNESSEE

Prepared by:
Signal Environmental Services, Inc.
900 Manufacturers Road, Second Floor
Chattanooga, Tennessee 37405

October 1994

The following employees have been briefed on the Health and Safety Plan and given copies.

Signature	Printed Name
Greg V. Veal	GREG V. VEAL
James W. Griffith Jr.	James W. Griffith JR
Shae A Hager	Shae A Hager
Douglas E Tate	Douglas E TATE
John Scott	John Scott
Joe C. Morrison	Joe C. Morrison
Ron Higgins	Ron Higgins
Michael R. Matthews	MICHAEL R. MATTHEWS

Saad - Trousdale Site
Site Remediation Program
Health and Safety Plan

Table of Contents

1.0 Introduction

This section of the Site Health and Safety Plan (HASP) document defines general applicability and general responsibilities with respect to compliance with Health and Safety programs.

1.1 Scope and Applicability of the Site Health and Safety Plan

The purpose of this Site Health and Safety Plan is to define the requirements and designate protocols to be followed at the Site during remediation activities. Applicability extends to all Governmental employees, contractors, subcontractors, and visitors.

All personnel on site, including contractors and subcontractors, shall be informed of the site emergency response procedures and any potential fire, explosion, health, or safety hazards of the operation. This HASP summarizes those hazards in Table 3.1 and defines protective measures planned for the site.

This plan must be reviewed and an agreement to comply with the requirements must be signed by all personnel prior to entering the exclusion zone or the contamination reduction zone. Any changes to this plan must be documented and justified per Site Safety log (Appendix A).

During development of this plan, consideration was given to current safety standards as defined by EPA/OSHA/NIOSH, health effects and standards for known contaminants, and procedures designed to account for the potential for exposure to unknown substances. Specifically, the following reference sources have been consulted:

- OSHA 29 CFR 1910.120 and EPA 40 CFR 311
- U.S. EPA, OERR ERT Standard Operating Guides
- NIOSH/OSHA/USCG/EPA Occupational Health and Safety Guidance Document for Hazardous Waste Site Activities
- (ACGIH) Threshold Limit Values for Chemical Substances
- OSHA 29 CFR 1926
- OSHA 29 CFR 1910.1000 Air Contaminants - Permissible Exposure Limits
- NIOSH Pocket Guide to Chemical Hazards, June 1990
- Proctor, N.H., et al, Chemical Hazards of the Workplace, Lippincott, Philadelphia, 1988
- OSHA 29 CFR 1910.1200 Hazard Communication Standard

- Signal Environmental Services, Inc., Health and Safety Policy and Procedures Manual

1.2 Visitors

All visitors entering the contamination reduction zone and/or the exclusion zone at the site will be required to read and verify compliance with he provisions of this HASP. In addition, visitors will be expected to comply with relevant OSHA requirements such as medical monitoring (Sec. 6.0), Training (Sec. 4.0), and respiratory protection (if applicable). Visitors will also be expected to provide their own protective equipment. Visitors will be properly decontaminated prior to exiting the worksite.

In the event that a visitor does not adhere to the provision of the HASP, he/she will be requested to leave the work area. All non-conformance incidences will be recorded in the site log.

2.0 Key Personnel/Identification of the Health and Safety

2.1 Key Personnel

The following personnel and organizations are critical to the planned activities at the Site. The organizational structure will be reviewed and updated periodically by the site supervisor.

Signal Environmental Services, Inc.
Signal Environmental Services, Inc. is the Remediation Contractor on the job.

de maximis
demaximis, Inc. is contract administration.

2.2 Site Specific Health and Safety Personnel

The Site Health and Safety Officer (HSO) has total responsibility for ensuring that the following provisions of this HASP are adequate and implemented in the field. Changing field conditions may require decisions to be made concerning adequate protection programs. Therefore, it is vital that personnel assigned as HSO be experienced and meet the additional training requirements specified by OSHA in 29 CFR 1910.120 (See Section 4.0 of this HASP). The HSO is also responsible for

conducting site inspections on a regular basis in order to ensure the effectiveness of this plan. A morning briefing will be held at the beginning of each work day to reiterate safety practices, to designate the necessary safety equipment, and to review the day's work.

2.3 Organizational Responsibility

Signal Environmental Services, Inc., is the Remediation Contractor for the Saad - Trousdale Project. Signal is responsible for all Physical operations on site, including the health and safety of its workers.

3.0 Task/Operation Safety and Health Risk Analysis

3.1 Historical Overview of the Site

This HASP defines the hazards and methods to protect personnel from those hazards as identified in the background information. A thorough overview of historical information concerning the Site is available from de maximis, Inc. Remediation of property north of the site encountered numerous chemicals that are not suspected to be present but will be the reason for the continued air sampling. These chemicals are presented in Appendix B.

3.2 Task by Task Risk Analysis

The evaluation of hazards is based upon the knowledge of site background.

The following subsections describe each task/ operation in terms of the specific hazards associated with it. In addition, the protective measures to be implemented during completion of those operations are also identified.

The on-site work consists of the following tasks:

I. Mobilization of construction facilities, materials, equipment, plant and personnel necessary to perform Works.

II. Site preparation including:
- provision of utilities;

- locating and maintaining all underground and above ground facilities which may be affected by the Works;
- Supply and installation of temporary fencing, barricades and warning signs to delineate and separate work areas;
- Construction of equipment and personnel decontamination facilities;
- Installation of weigh scale; and
- Removal of railroad tracks.

III. Installation of shoring next to access road.

IV. Excavation contaminated field tiles, granular bedding and associated soils.

V. Backfilling excavations.

VI. Loading of haul vehicles with on-site soils from the waste staging pad for off-site transportation.

VII. Site restoration.

VIII. Project closeout including decontamination and demobilization.

Table 3.1
Task Analysis
Chemical Hazards of Concern

Task	Chemical Hazard	Media	Concentration (ppm)	Route of Exposure
Mobilization	None	N/A	N/A	N/A
Site Preparation	None	N/A	N/A	N/A
Installation of Shoring	Polychlorinated Biphenyls (PCBs)	Soil	ND* - >500 ppm	Ingestion Inhalation
Excavation	PCBs	Soil	ND - >500 ppm	Ingestion Inhalation
Backfilling	None	N/A	N/A	N/A
Loading of Haul Vehicles	PCBs	Soil	ND - >500 ppm	Ingestion Inhalation
Site Restoration	None	N/A	N/A	N/A

Project Closeout	None	N/A	N/A	N/A
Track Removal	None	N/A	N/A	N/A

*ND- None Detected
N/A - Not Applicable

3.3 Task Hazard Descriptions

3.3.1 Mobilization

General hazards associated with mobilization are:

- Back strain from lifting
- Vehicle accidents

Hazard Prevention

- Prevent back strain by using proper lifting techniques
- Seatbelts will be mandatory
- Operators are required to drive defensively

3.3.2 Site Preparation

General hazards encountered during site preparation include the following:

- Back strain from clearing vegetation.
- Driving vehicles, placing trailers, and collecting rubbish on uneven surfaces creates the possibility of the vehicle rolling, getting stuck in mud or ditches.
- Accidents due to vehicles getting flat tires or striking other objects.
- Crushing or pinching hazard due to trailer placement.
- Several types of hazards can be associated with utility hook-up depending on the particular work activity. Construction of temporary poles for electrical and/or telephone lines can disturb potentially contaminated soils.
- Rhus dermatitis (poison ivy, white sumac, etc.).

- Cold stress and heat stress

Hazard Prevention

- Back strain can be prevented by frequent breaks in routine. Use slow, even movements and proper lifting techniques (i.e., with the legs). Work gloves will reduce the incidence of hand blistering and injury associated with clearing vegetation.
- Proper vehicle maintenance will prevent avoidable vehicle breakdown in the field. In order to minimize accidents from uneven terrain, a site surveillance should be performed on foot to choose a clear driving path.
- Seatbelts should be worn at all times.
- At a minimum, all heavy equipment shall have the safety features outlined in OSHA 29 CFR 1910/1926 Subpart O.
- Heavy equipment operators should have proper training and experience, and documentation of both. The general provisions of 1910/1926 would apply.
- Hazards associated with the particular utility should be anticipated and proper measures should be undertaken by the subcontractor employer. General provisions of 29 CFR 1910/1926 Subpart K, should be implemented in order to prevent electrical hazards.
- Rhus dermatitis can be prevented by training employees to recognize poisonous plants, protective clothing, and convenient wash facilities.
- Cold stress and heat stress are prevented by training employees to recognize symptoms, to observe preventive measures such as wearing proper clothing; by providing acclimatization periods for unacclimatized employees; by providing adequate rest areas (Sections 5.7.1 and 5.7.2), and by medical surveillance (Section 6).

3.3.3 Installation of Shoring

This section is not currently applicable to this health and safety plan. If necessary, it will be covered in the shoring plan.

3.3.4 Excavation

General hazards encountered during excavation include the following:

- Cave-ins

- Falls
- Confined space potential
- Heavy machinery accidents

Hazard Prevention

- The excavation will be 2:1 sloped to the bottom where practical. In other areas the excavation will be shored.
- This opening generally does not have confined space potential due to the opening of the excavation and the shallow excavation. The confined areas will be monitored for LEL, O_2 and CO as well as volatile organics with portable survey instruments. Trenching will be conducted in a trench box. The requirements of 29 CFR 1910.146 will be followed for all identified permit required confined spaces.
- All heavy equipment will be equipped with back-up warning devices. Operators will be reminded of safety procedures daily.
- Proper vehicle maintenance will prevent avoidable vehicle breakdown in the field. In order to minimize accidents from uneven terrain, a site surveillance should be performed on foot to choose a clear driving path.
- Seatbelts should be worn at all times.
- At a minimum, all heavy equipment shall have the safety features outlined in OSHA 29 CFR 1910/1926 Subpart O.
- Heavy equipment operators should have proper training and experience, and documentation of both. The general provisions of 1910/1926 would apply.

3.3.5 Backfilling

General hazards associated with backfilling include the following:

- Heavy equipment accidents
- Vehicle accidents

Hazard Prevention

- All heavy equipment will be equipped with back-up warning devices. Operators will be reminded of safety procedures daily.

- Proper vehicle maintenance will prevent avoidable vehicle breakdown in the field. In order to minimize accidents from uneven terrain, a site surveillance should be performed on foot to choose a clear driving path.
- Seatbelts should be worn at all times.
- At a minimum, all heavy equipment shall have the features outlined in OSHA 29 CFR 1910/1926 Subpart O.
- Heavy equipment operators should have proper training and experience, and documentation of both. The general provisions of 1910/1926 would apply.

3.3.6 Loading of Haul Vehicles

General hazards associated with loading of haul vehicles are:

- Heavy equipment accidents

Hazard Prevention

- Proper vehicle maintenance will prevent avoidable vehicle breakdown in the field. In order to minimize accidents from uneven terrain, a site surveillance should be performed on foot to choose a clear driving path.
- Seatbelts should be worn at all times.
- At a minimum, all heavy equipment shall have the safety features outlined in OSHA 29 CFR 1910/1926 Subpart O.
- Heavy equipment operators should have proper training and experience, and documentation of both. The general provisions of 1910/1926 would apply.

3.3.7 Site Restoration

General hazards associated with site restoration are as follows:

- Back straining from lifting
- Vehicle accidents

Hazard Prevention

- Prevent back strain by using proper lifting techniques.
- Proper vehicle maintenance will prevent avoidable vehicle breakdown in the field. In order to minimize accidents from uneven terrain, a site surveillance should be performed on foot to choose a clear driving path.
- Seatbelts should be worn at all times.

3.3.8 Use of Cutting Torches

General hazards are:

- Improper eye protection from radiation
- Fire hazards
- Burns
- Explosions
- Breathing of fumes

Hazard Prevention

- Minimum - protective goggles or face shield with eye protection-shaded filter lenses are provided in Appendix D. This appendix also describes other issues of safety which may need to be addressed.
- All moveable fire hazards will be removed or guards placed to confine heat and sparks
- Fire extinguisher will be ready for instant use
- Hot work permit needs to be issued
- No torch use will be permitted in areas with explosive atmospheres
- All drums or vessels will be blanked or disconnected
- Protective clothing will be used to protect hands and body from sparks
- Exhaust fans will be used if ventilation is insufficient to remove toxic fumes
- No pressure exceeding 15 psig or 30 psia
- Only approved apparatus will be used
- Compressed gas cylinders will be properly marked for gas content
- Cylinders will be kept away from actual cutting operation or other heat sources
- Oxygen will be kept from combustible material and oil or grease

- Valve protection will always be in place
- Valves will be kept closed unless in use
- Cylinders will be secured to prevent them from falling or rolling

3.3.9 Project Closeout

General hazards associated with the project closeout are as follows:

- Back straining from lifting
- Vehicle accidents

Hazard Prevention

- Prevent back strain by using proper lifting techniques.
- Proper vehicle maintenance will prevent avoidable vehicle breakdown in the field. In order to minimize accidents from uneven terrain, a site surveillance should be performed on foot to choose a clear driving path.
- Seatbelts should be worn at all times.

3.4 Chemical and Physical Hazards

3.4.1 General Description

The only chemical hazards present are Polychlorinated Byphenols (Specifically Aroclor 1242 and Aroclor 1260). Table 3.2 contains some characteristics of the compounds of concern.

Table 3.2
Chemical Characteristics

Compound	Odor	Flashpoint (°F)	PEL (mg/m^3)	IDLH (mg/m^3)	Comments
Aroclor 1242	Mild Oil Odor	N.E.	1.0	10.0	Irritates eyes, chloroacne, Liver damage

Compound	Odor	Flashpoint (°F)	PEL (mg/m³)	IDLH (mg/m³)	Comments
Aroclor 1260	Mild Oil Odor	N.E.	0.5	5.0	Irritated eyes, Chloroacne, Liver damage

N.E. - None Established

3.4.2 Toxicity Hazards

These chemicals may be hazardous by skin absorption or inhalation of these aerosols and liquids. Permissible exposure limits (PELs) are shown in Table 3.2. Airborne concentrations will be kept within these limits.

3.4.3 Fire/Explosion Hazards

Fire hazards associated with PCB compounds are minimal.

3.4.4 First Aid

If any of these chemicals come into contact with the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Contact lenses should not be worn when working. If these chemicals come in contact with the skin, promptly wash the contaminated skin with soap and water. If these chemicals penetrate through the clothing, promptly remove the clothing and wash the skin with soap and water. Get medical attention promptly. If a person breathes in large amounts of the chemical aerosols, move the exposed person to fresh air at once. Once removed from area, get medical attention immediately. If these chemicals have been swallowed, get medical attention immediately.

3.5 Site Safety Equipment

A listing of on-site safety equipment is provided in Appendix C.

4.0 Personnel Training Requirements

Consistent with OSHA's 29 CFR 1910.120 regulation covering Hazardous Waste Operations and Emergency Response, all site personnel are required to be trained in accordance with the standard. At a minimum all personnel are required to be trained to recognize the hazards on-site, the provision of this HASP, and the responsible personnel.

4.1 Reassignment and Annual Refresher Training

Prior to arrival on site, each employer will be responsible for certifying that his/her employees meet the requirements of reassignment training, consistent with 29 CFR 1910.120 paragraph (e)(3). The employer will provide a document certifying that each general site worker has received 40 hours of instruction off the site, and 24 hours of training for any workers who are on site only occasionally for a specific task. If an individual employee has work experience and/or training that is equivalent to that provided in the initial training, an employer may waive the 40-hour training so long as that equivalent experience is documented or certified. All personnel must also receive 8 hours of refresher training annually.

4.2 Site Supervisor's Training

Consistent with OSHA 29 CFR 1910.120 paragraph (e)(8), individuals designated as site supervisors require an additional 8 hours of training.

4.3 Training and Briefing Topics

The following items will be discussed by a qualified individual at the site pre-entry briefing(s) or periodic site briefings.

Training	Frequency
Confined space entry procedure, Sec. 11.0	Periodic
Emergency response plan, Sec. 10.0; [29 CFR 1910.120(l)]	Periodic
Engineering controls and work practices	Periodic

Training	Frequency
Chemical hazards, Table 3.1	Periodic
Overhead and ground utilities	Periodic
Personal protective equipment, Sec. 5.0	Periodic
Physical hazards. Table 3.2	Periodic
Respiratory protection, Sec. 5.8	Periodic
Training requirements, Sec. 4.0; [29 CFR 1910.120(e)]	Periodic

5.0 Personal Protective Equipment to be Used

This section describes the general requirements of the EPA designated Levels of Protection (A-D), and the specific levels of protection required for each task at the Site. All respiratory protection will comply with Signal's Respiratory Protection Program as required by OSHA 1910.134. Available site safety equipment list is provided in Appendix C.

5.1 Levels of Protection

Personnel wear protective equipment when response activities involve known or suspected atmospheric contamination vapors, gases, or particulates may be generated by site activities, or when direct contact with skin-affecting substances may occur. Full facepiece respirators protect lungs, gastrointestinal tract, and eyes against airborne toxicants. Chemical-resistant clothing protects the skin from contact with skin-destructive and absorbable chemicals.

The specific levels of protection and necessary components for each have been divided into four categories according to the degrees of protection afforded:

Level A Should be worn when the highest level of respiratory, skin, and eye protection is needed.

Level B Should be worn when the highest level of respiratory protection is needed, but a lesser level of skin protection.LevelB is a minimum level of choice when encountering unknown environments.

Level C Should be worn when criteria for using air-purifying respirators are met, and a lesser level of skin protection is needed.

Level D Should be worn only as a work uniform and not in any area with respiratory hazards. it provides minimal protection against chemical hazards.

Modifications to these levels are permitted and routinely employed during site work activities to maximize efficiency. For example, Level C respiratory protection and Level D skin protection may be required at the same task. Likewise, the type of chemical protective ensemble (i.e., material, format) will depend upon contaminants and degrees of contact.

The Level of Protection selected is based upon the following:

- Type and measured concentration of the chemical substance in the ambient atmosphere and its toxicity.
- Potential for exposure to substances in air, liquids, or other direct contact with material due to work being done.
- Knowledge of chemicals on-site along with properties such as toxicity, route of exposure, and contaminant matrix.

In situations where the type of chemical, concentration, and possibilities of contact are not known, the appropriate Level of Protection must be selected based on professional experience and judgement until the hazards can be better identified.

5.2 Level A Personal Protective Equipment

- Supplied-air respirator approved by the Mine Safety and Health Administration (MSHA) and National Institute for Occupational Safety and Health (NIOSH). Respirators may be positive pressure-demand, self-contained breathing apparatus (SCBA), or positive pressure-demand, airline respirator (with escape bottle for Immediately Dangerous to Life or Health (IDLH) or potential for IDLH atmosphere)
- Fully encapsulating chemical resistant suit
- Long cotton underwear
- Gloves (inner)
- Boots, chemical resistant, steel toed and shank (depending on suit construction, worn over or under suit boot)

- Hard hat (under suit)
- Disposable gloves and boot covers (worn over fully encapsulating suit)
- 2-way Radio communication (intrinsically safe)

5.3 Level B Personal Protective Equipment

- Supplied-air Respirator (MSHA/NIOSH approved). Respirators may be positive pressure-demand, self-contained breathing apparatus (SCBA), or positive pressure-demand, airline respirator (with escape bottle for IDLH or potential IDLH atmosphere)
- Chemical-resistant clothing (overalls and long-sleeved jacket; hooded, one or two-piece chemical-splash suit; disposable chemical-resistant, one-piece suits)
- Coveralls
- Gloves (outer), chemical-resistant
- Gloves (inner), chemical-resistant
- Boots (outer), chemical-resistant, steel toe and shank
- Hard hat (face shield)
- 2-way radio communication (intrinsically safe)

5.4 Level C Personal Protective Equipment

- Air-purifying respirator, full- or half-face, cartridge-equipped (MSHA/NIOSH approved)
- Chemical-resistant clothing (coveralls; hooded, one-piece or two-piece chemical splash suit; chemical-resistant hood and apron; disposable chemical-resistant coveralls)
- Coveralls
- Gloves (outer), chemical-resistant
- Gloves (inner), chemical-resistant
- Boots (outer), chemical-resistant, steel toe and shank
- Hard hat (face shield)
- 2-way radio communication (intrinsically safe)

5.5 Level D Personal Protective Equipment

- Coveralls
- Gloves

- Boots/shoes, leather or chemical resistant, steel toe and shank
- Safety glasses
- Hard hat

5.6 Reassessment of Protective Program

The Level of Protection provided by PPE selection shall be upgraded or downgraded based upon a change in site conditions or findings of investigations.

When a significant change occurs, the hazards should be reassessed. Some indicators of the need for reassessment are:

- Commencement of a new work phase, such as the start of drum sampling or work that begins on a different portion of the site.
- Change in job tasks during a work phase.
- Change of season/weather.
- When temperature extremes or individual medical considerations limit the effectiveness of PPE.
- Contaminants other than those previously identified are encountered.
- Change in ambient levels of contaminants.
- Change in work scope which effects the degree of contact with contaminants.

5.7 Work Mission Duration

Before the workers actually begin work in their PPE ensembles the anticipated duration of the work mission should be established. Several factors limit mission length, including:

- Air supply consumption (SCBA use).
- Suit/Ensemble permeation and penetration rates for chemicals (section 5.8).
- Ambient temperature and weather conditions (heat stress/cold stress).
- Capacity of personnel to work in PPE.

5.7.1 Monitoring of Worker Heat Stress

When workers are anticipated to work in hot environments, the following measures will be takes to reduce the chance of injury to the workers:

- Workers will be reminded to pace themselves and take short rest breaks as approved by the Health and Safety Officer.
- Cool potable water will be made available.
- Rest breaks will be provided in areas which are cooler than the work area.
- Wind velocity, air temperature, radiant heat temperature and humidity will be continuously monitored.

5.7.2 Monitoring of worker Cold Stress

When workers are anticipated to work in cold environments, the following measures will be taken to reduce the chance of injury to the workers:

- Workers will be reminded to wear insulated clothing under their PPE.
- Workers will take short rest breaks as approved by the Health and Safety Officer.
- Rest breaks will be provided in areas which are warmer than the work area.
- Wind velocity, air temperature, radiant heat temperature and humidity will be continuously monitored.

5.8 Chemical Resistance and Integrity of Protective Material

The following specific clothing materials and levels of protection are recommended for the site tasks:

5.8.1 Mobilization - (Level D)

- Boots/Gloves - Steel Toe
- Outer Gloves - Work Gloves
- Outer Garment/Coveralls - Work Uniform

5.8.2 Site Preparation - (Level D)

- Boots/Boot Covers - Steel Toe
- Outer Gloves - Work Gloves
- Outer Garment/Coveralls - Work Uniform

5.8.3 Backfilling - (Level D)

- Boots/Boot Covers - Steel Toe
- Outer Gloves - Work Gloves
- Outer Garment/Coveralls - Work Uniform

5.8.4 Site Restoration - (Level D)

- Boots/Boot Covers - Steel Toe
- Outer Gloves - Work Gloves
- Outer Garment/Coveralls - Work Uniform

5.8.5 Project Closeout - (Level D)

- Boots/Boot Covers - Steel Toe
- Outer Gloves - Work Gloves
- Outer Garment/Coveralls - Work Uniform

5.8.6 Excavation in Contaminated Areas - (Level C)

- Outer Gloves - Butyl
- Outer Garment/Coveralls - Tyvek
- Combination Organic Vapor and Particulate Cartridges

5.9 SOP for Respiratory Protection Devices

The following subsections define standard operating procedures for air purifying respirators and self-contained breathing apparatus.

5.9.1 Cleaning and Disinfecting Air Purifying Respirators

APRs in routine use should be cleaned and disinfected at least daily. Where respirators are used only occasionally or when they are in storage, the cleaning interval is weekly or monthly, as appropriate.

Daily Cleaning Procedure

The steps to be followed for cleaning and disinfecting daily are as follows:

- *Respirator Disassembly:* Respirators are taken to a clean location where the filters, cartridges or canisters are removed, damaged to prevent accidental reuse, and discarded. For through cleaning, the inhalation and exhalation valves, speaking diaphragm, and any hoses are removed.
- *Cleaning:* In most instances, the cleaning and disinfecting solution by the manufacturer is used and dissolved in warm water in an appropriate tub. Using gloves, the respirator is placed in the tub and swirled for a few seconds. A soft brush may be used to facilitate cleaning.
- *Rinsing:* The cleaned and disinfected respirators are rinsed thoroughly in water to remove all traces of detergent and disinfectant. This is very important for preventing dermatitis.
- *Drying:* The respirators may be allowed to dry in room air on a clean surface. They may also be hung upside down like drying clothes, but care must be taken to not damage or distort the facepieces.
- *Reassembly and Inspection:* The clean, dry respirator facepieces should be reassembled and inspected in an area separate form the disassembly area to avoid contamination. Special emphasis should be given to inspecting the respirators for detergent or soap residue left by inadequate rinsing. This appears most often under the seat of the exhalation valve, and can cause valve leakage or sticking.

After Routine Use in Exclusion Zone

The steps to be taken for cleaning and disinfecting in the field are as follows:

- The mask may be washed/rinsed with soap and water.
- At a minimum, the mask should be wiped with disinfectant wipes (benzoalkaliod or isoproyl alcohol), and allowed to air dry in a clean area.

5.9.2 APR Inspection and Checkouts

- Each user of an APR will be fit-tested for that unit.
- Visually inspect the entire unit for any obvious damages, defects, or deteriorated rubber.
- Make sure that the facepiece harness is not damaged. The serrated portion of the harness can fragment which ill prevent proper face seal adjustment.
- Inspect lens for damage and proper seal in facepiece.
- Exhalation Valve - pull off plastic cover and check valve for debris or for tears in the neoprene valve (which could cause leakage).
- Inhalation Valve (two) - screw off cartridges/canisters and visually inspect neoprene valves for tears. Make sure that the inhalation valves and cartridge receptacle gaskets are in place.
- Make sure a protective cover lens is attached to the lens.
- Make sure the speaking diaphragm retainer ring is hand tight.
- Make sure that you have the correct cartridge.
- Don and perform negative pressure test.

5.9.3 Storage of Air Purifying Respirators

OSHA requires that respirators be stored against dust, sunlight, heat, extreme cold, excessive moisture, damaging chemicals, and mechanical damage.

Storage of respirators should be in a clean area, minimizing the chance for contamination or unsanitary conditions.

5.10 SOP for Personal Protective Equipment (PPE)

5.10.1 Inspection

Proper inspection of PPE features several sequences of inspection depending upon specific articles of PPE and it's frequency of use. The different levels of inspection are as follows:

- Inspection and operational testing of equipment received from factory or distributor.
- Inspection of equipment as it is issued to workers.
- Inspection after use or training and prior to maintenance.
- Periodic inspection of stored equipment.

- Periodic inspection when a question arises concerning the appropriateness of the selected equipment, or when problems with similar equipment arise.

The primary inspection of PPE in use for activities at the Site occur prior to immediate use and will be conducted by the user. This ensures that the specific device or article has been checked-out by the user and that the user is familiar with its use.

Table 5.1 Sample PPE Inspection Checklists

Clothing

Before use:

- Determine that the clothing material is correct for the specified task at hand.
- Visually inspect for imperfect seams, non-uniform coatings, tears, and malfunctioning closures.
- Hold up to light and check for pinholes.
- Flex product, observing for cracks and other signs of shelf deterioration.
- If the product has been used previously, inspect inside and out for signs of chemical attack, resulting in discoloration, swelling and stiffness.

During use:

- Evidence of chemical attack such as discoloration, swelling, stiffness, and softening. However, keep in mind that chemical permeation can occur without any visible effects.
- Closure failure.
- Tears.
- Punctures.
- Seam Discontinuities.

Gloves

Before use:

- Visually inspect for imperfect seams, tears, and non-uniform coatings. Pressurize glove with air and listen for pin-hole leaks.

6.0 Medical Surveillance Requirements

Medical monitoring programs are designed to track the physical condition of employees on a regular basis, as well as survey pre-employment or baseline condition\s prior to potential exposures.

6.1 Baseline or Reassignment Monitoring

Prior to being assigned to a hazardous or potentially hazardous activity involving exposure to toxic materials, employees must receive a reassignment or baseline physical. The content of the physical is to be determined by the employer's medical consultant. As suggested by NIOSH/OSHA/USCG/EPA's *Occupational Safety & Health Guidance Manual for hazardous Waste Site Activities*, the minimum medical monitoring requirements for work at the Site is as follows:

- Complete medical and work histories.
- Physical examination.
- Pulmonary function tests (FVC and FEV1).
- Chest X-ray (every 2 years).
- EKG.
- Eye examination and visual acuity.
- Audiometry.
- Urinalysis.
- Blood chemistry and heavy metal toxicology.

The reassignment physical will categorize employees as fit-for-duty and enable them to wear the required levels of personal protective devices (including CPC for heat stress).

6.2 Periodic Monitoring

In addition to a baseline physical, all employees require a periodic physical within the last 12 months unless the advising physician believes a shorter interval is appropriate. The employer's medical consultant should prescribe an adequate medical which fulfills OSHA 29 CFR 1910.120 requirements. The reassignment medical outlined above is applicable.

All personnel working in contaminated or potentially contaminated areas at the Site will verify currency (within 12 months) with respect to medical monitoring. This is done by indicating date of last physical on the safety plan agreement form.

6.3 Exposure/Injury/Medical Support

As a follow-up to an injury or possible exposure above established exposure limits, all employees are entitled to and encouraged to seek medical attention and physical testing. Depending upon the type of exposure, it is critical to perform follow-up testing within 24-48 hours. it will be up to the employer's medical consultant to advise the type of test required to accurately monitor for exposure effects.

6.4 Exit Physical

At termination of employment or reassignment to an activity or location which does not represent a risk of exposure to hazardous substances, an employee shall require an exit physical. If his/her last physical was within the last 6 months, the advising medical consultant has the right to determine adequacy and necessity of exit exam.

7.0 Frequency and Types of Air Monitoring/Sampling

This section explains the general concepts of an air monitoring program and specifies the surveillance activities that will take place during project completion at the Site.

The purpose of air monitoring is to identify and quantify airborne contaminants in order to verify and determine the level of worker protection needed. Initial screening for identification is often qualitative, i.e., the contaminant, or the class to which it belongs, is demonstrated to be present but the determination os its concentration (quantification) must await subsequent testing. two principle approaches are available for identifying and/or quantifying airborne contaminants:

- The onsite use of direct-reading instruments.
- Laboratory analysis of air samples obtained by gas sampling bag, collection media (i.e., filter, sorbent), and/or wet-contaminant collection methods.

All air monitoring data will be recorded in the safety log (Appendix A). Calibration of air monitoring equipment will be performed daily as specified by the manufacturer.

7.1 Direct-Reading Monitoring Instruments

Unlike air sampling devices, which are used to collect samples for subsequent analysis in a laboratory, direct-reading instruments provide information at the time of sampling, enabling rapid decision-making. Data obtained from the real-time monitors are used to assure proper selection of engineering controls, work practices and personal protective equipment. Overall, the instruments may provide an indication of whether or not site personnel are being exposed to concentrations which exceed individual exposure limits or action levels for specific hazardous materials.

Of significant importance, especially during initial entries, is the potential for IDLH conditions, including oxygen deficient atmospheres. Real-time monitors can be useful in identifying any IDLH conditions, toxic levels of airborne contaminants, flammable atmospheres, or radioactive hazards. Periodic monitoring of conditions is critical, especially if exposures may have increased since initial monitoring or if new site activities have commenced.

Table 7.1, excerpted from *Occupational Safety and Health Guidance for Hazardous Waste Site Activities*, provides an overview of available monitoring instrumentation and their specific operating parameters.

Table 7.1 Some Direct-Reading Instruments for General Survey

- *Instrument*: Combustible Gas Indicator (CGI)
  Hazard Monitored: Combustible gases and vapors.
  Application: Measures the concentration of a combustible gas or vapor.
  Detection Method: A filament, usually made of platinum, is heated by burning the combustible gas or vapor. The increase in heat is measured. Gas and vapors are ionized in a flame. A current is produced in proportion to the number of carbon atoms present.
  General Care/Maintenance: Recharge or replace battery. Calibrate immediately before use.
  Typical Operating Time: Can be used for as long as the battery lasts, or for the recommended intervals between calibrations, whichever is less.
- *Instrument*: Photoionizing Detector (PID)
  Example: HNU.

Hazard Monitored: Many organic and some inorganic gases and vapors.
Application: Detects total concentration of many organic and some inorganic gases and vapors. Some identification compounds are possible if more than one probe is measured.
Detection Method: Ionizes molecules using UV radiation; produces a current that is proportional to the number of ions.
General Care/Maintenance: Recharge or replace battery. Regularly clean lamp window. Regularly clean and maintain the instrument and accessories.
Typical Operating Time: 10 hours. 5 hours with strip chart recorder.

- *Instrument*: Oxygen Meter
  Hazard Monitored: Oxygen (O_2)
  Application: Measures the percentage of O_2 in the air.
  Detection Method: Uses an electrical sensor to measure the partial pressure of O_2 in the air, and converts that reading to O_2 concentration.
  General Care/Maintenance: Replace detector cell according to manufactures recommendations. Recharge or replace batteries prior to expiration of the specified interval. If the ambient air is more than 0.5% CO_2, replace the detector cell frequently.
  Typical Operating Time: 8-12 hours.

7.2 Specific Contaminants to be Monitored at the Site

The following checklist provides a summary of the contaminants to be monitored for and frequency/schedule of monitoring. The air sampling checklist will serve as a site monitoring plan.

7.2.1 Site Monitoring and Sampling Program

Personal Dust Monitoring

- Personal Air Pump
  Frequency: Continuous
  Duration: Duration of work day
  Locations: Personal Dust Samplers shall be provided to employees of highest risk at both the interim storage and contaminated soil excavation areas. A personal dust monitor shall be used by Signal to assess the exposure in the Exclusion Zone during excavation.

Area Dust Monitoring

- Low Volume Air Pump
  Frequency: Continuous
  Duration: Duration of the work day
  Locations: (3) Three low volume air pumps shall be located down wind from the work activities. In addition (1) one low volume air pump shall be located upwind from the work activities.

Personnel Monitoring Instrument

- Photoionizing Detector (PID)
  Frequency: (1) One sample per hour or whenever deemed necessary by HSO.
  Duration of Monitoring: 5 minutes
  Locations: Samples will be collected inside work areas from the breathing zone.

Environmental Monitoring Instrument

- Photionizing Detector (PID)
  Frequency: (1) One sample every two hours
  Duration: 5 minutes
  Location: (3) three monitors will be stationed downwind from the work activities at the property boundary and (1) one monitor will be stationed upwind from the work activities at the property boundary.

Air Monitoring Instruments

- Combustible Gas Indicator (CGI)
  Frequency: HSO determination
  Location: Excavation area
- Photoionization Detector (PID)
  Frequency: HSO determination
  Location: Excavation area
- Oxygen Meter
  Frequency: HSO determination
  Location: Excavation area

Action Levels

- Explosive atmosphere

Action Level	Action
> 20% LEL	Explosion/fire hazard may develop. Withdraw from area and control source of vapors.

- Oxygen

Action Level	Action
<19.5%	Oxygen deficient atmosphere. Withdraw from area until authorized to return by HSO. NOTE: Combustible gas readings are not valid in atmospheres with <19.5% O_2
>23%	Fire hazard potential. Withdraw from area and consult a fire safety specialist

- Organic gases and vapors

Action Level (ppm)	Action
> Background - 5	Half- or Full-face respirator available
5 - 50	Full-facepiece air purifying respirator, Level C
> 50	Shut-down activities, evaluate the need for level B or higher respiratory protection

- Dust

Action Level (mg/m^3)	Action
> 150 $\mu g/m^3$	Sample shall be analyzed for total PCB concentration

Reporting Format

- Field Notebook

8.0 Site Control Measures

The following section defines measures and procedures for maintaining site control. Site control is an essential component in the implementation of the site and safety program.

8.1 Buddy System

During all activities when some conditions present a risk to personnel, the implementation of a buddy system is mandatory. A buddy system requires at least two people who work as a team; each looking out for each other.

8.2 Site Communication Plan

Successful communications between field teams and contact with personnel in the support zone is essential. Routine communications will be given verbally. A compressed gas airhorn will be used to signal emergency evacuations if needed. Emergency telephone numbers are provided in Section 10.5 and will also be posted in command post. The following communication systems will be available during activities at the Site:

- Compressed Air Horn
- Mobile Telephone

8.3 Work Zone Definition

The three general work zones established at the site are the Exclusion Zone, Contamination Reduction Zone and Support Zone. Figure 8.1 provides a site map with the work zones designated on it.

The Exclusion Zone is defined as the active work area where contamination is either known or likely to be present, or, because of activity, will provide a potential to cause harm to personnel. Entry into the Exclusion Zone requires the use of the designated personal protected equipment.

The Contamination Reduction Zone is defined as the area where personnel conduct personal and equipment decontamination. It is essentially a buffer between contaminated areas and clean areas. Activities to be conducted in this zone will require personal protection as defined in the decontamination plan.

The Support Zone is situated in clean areas where the chance to encounter hazardous materials or conditions is minimal. Personal protective equipment is therefore not required.

8.4 Nearest Medical Assistance

Figure 1 provides a map of the route to the nearest medical facility which can provide emergency care for individuals who may experience an injury or exposure on-site. The route to the hospital should be verified by the HSO, and should be familiar to all site personnel.

8.5 Safe Work Practices

Table 8.1 provides a list of standing orders for the Exclusion Zone. Table 8.2 provides a list of standing orders for the Contamination Reduction Zone.

Table 8.1
Standing Orders for Exclusion Zone

- No Smoking, eating, or drinking in this zone.
- No horse play.
- No matches or lighters in this zone.
- Check-in on entrance to this zone.
- Check-out on exit from this zone.
- Implement the communication system.
- Line of sight must be in position.
- Wear the appropriate level of protection as defined in the Safety Plan.
- Persons exiting the exclusion zone will pass through the designated decontamination sequence.
- Persons in this zone will exit immediately upon notification of an emergency by the OSM or HSO.
- Emergency evacuation will be via routes designated by the HSO.

Table 8.2
Standing Orders for Contamination Reduction Zone

- No smoking, eating, or drinking in this zone.
- No horse play.
- No matches or lighters in this zone.
- Wear the appropriate level of protection.

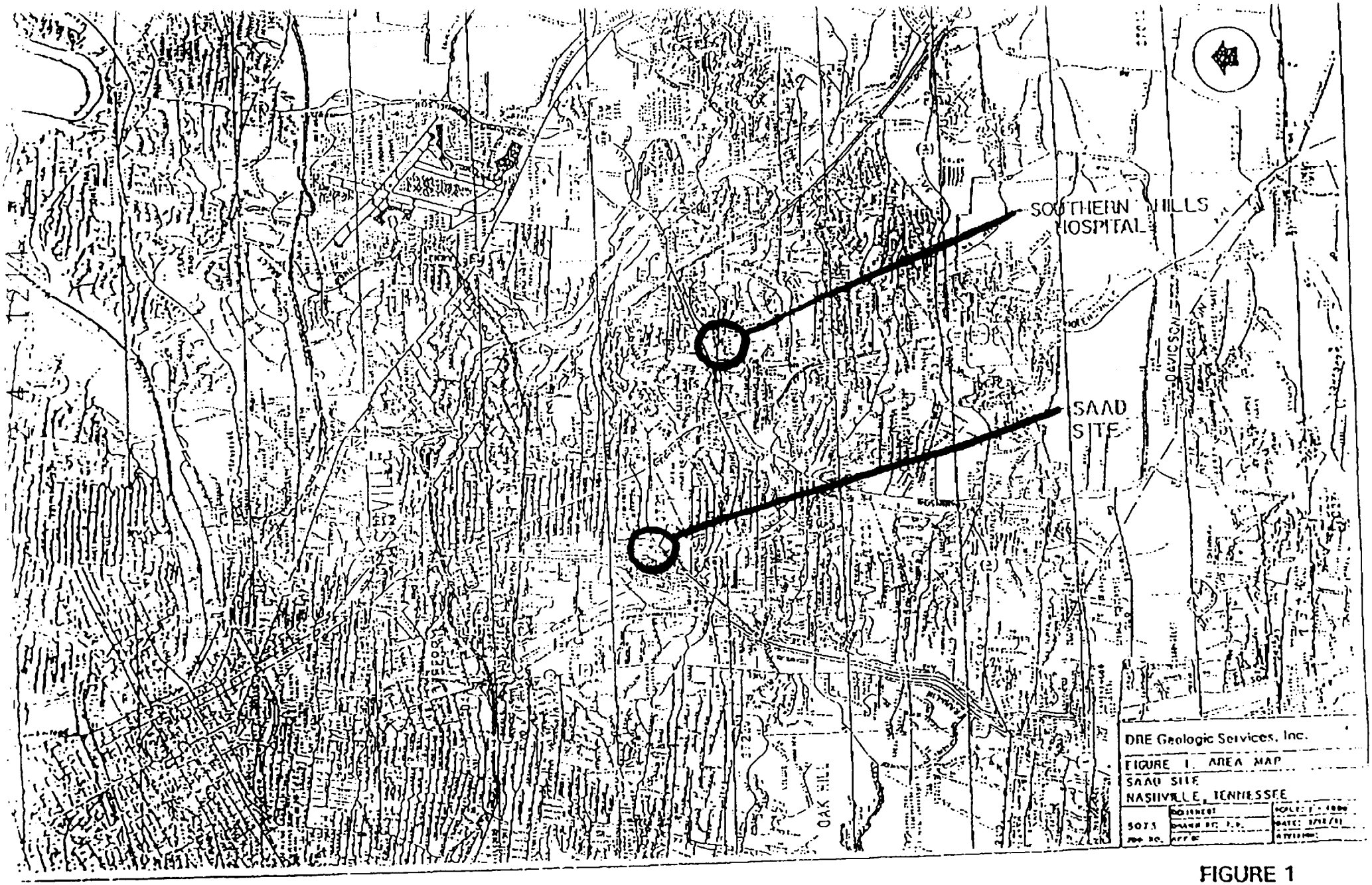

SOUTHERN HILLS
HOSPITAL
SAAD
SITE
DAVIDSON
OAK HILL
DRE Geologic Services, Inc.
FIGURE 1 AREA MAP
SAAD SITE
NASHVILLE, TENNESSEE

FIGURE 1

9.0 Decontamination Plan

Section 5.8 lists the tasks and specific levels of protection required for each task. Consistent with the levels of protection required, section 9.1 provides a step by step representation of the personnel decontamination process for either level A, B, or C. These procedures should be modified to suit conditions and protective ensembles in use.

9.1 Standard Operating Procedures

Decontamination involves the orderly controlled removal of contaminants. Standard decontamination sequences are presented in tables 9.1 and 9.2. All site personnel should minimize contact with contaminants in order to minimize the need for extensive decontamination.

Table 9.1
Level C Decontamination Steps

Step 1:	Segregated equipment drop
Step 2:	Boot and glove wash
Step 3:	Boot and glove rinse
Step 4:	Tape removal
Step 5:	Boot and glove removal
Step 6.	Suit removal
Step 7:	Hands and face wash
Step 8:	Redress

Figure 9.2
Level D Decontamination Steps

Step 1:	Remove outer garments (i.e., coveralls)
Step 2:	Remove gloves
Step 3:	Wash hands and face

9.2 Levels of Decontamination Protection Required for Personnel

The levels of protection required for personnel assisting with decontamination will be Level D. The Site Safety Officer is responsible for monitoring decontamination procedures and determining their effectiveness.

9.3 Equipment Decontamination

Sampling equipment will be decontaminated in accordance with procedures as defined in the work plan, this page. The sequence of steps required for decontaminating heavy machinery and vehicles can be found in Section 9.3.

9.3.1 Procedure for Decontaminating Heavy Machinery and Vehicles

Heavy machinery/vehicle is to be placed in the wash-down area. The wash-down area will be equipped with a sump to capture and contain all run-off contaminants. Upon completion of pressure wash or steam cleaning, the heavy machinery/vehicle will be removed from the wash down area.

9.4 Disposition of Decontamination Wastes

All equipment and solvents used for decontamination shall be decontaminated or disposed of properly. The wash-down area will be periodically cleaned to remove all sediment build-up. This sediment will be disposed by placing it with the contaminated soil that is being shipped off site. All liquid run-offs collected from decontamination points will be collected then stored in storage tanks until it is treated. Commercial laundries or cleaning establishments that decontaminate protective clothing or equipment shall be informed of the potentially harmful effects of exposures.

9.5 Dust and Particulate Emission Controls

To keep airborne dust and particulate emissions under control, water will be sprayed to moisten the ground surface.

10.0 Emergency Response/Contingency Plan

This section describes contingencies and emergency planning procedures to be implemented at the Site. This plan is compatible with local, state and federal disaster and emergency management plans as appropriate.

10.1 Pre-Emergency Planning

During the site briefings held periodically/daily, all employees will be trained in and reminded of provisions of the emergency response plan, communication systems, and evacuation routes. Table 10.1 identifies the hazardous conditions associated with specific site activities. The plan will be reviewed and revised if necessary, on a regular basis by the HSO. This will ensure that the plan is adequate and consistent with prevailing site conditions.

Table 10.1
Emergency Recognition/Control Measures

Hazard	Prevention/Control	Location
Fire/Explosion	Fire Extinguisher Alarm System Fire Inspection	
Spill	Berms/Dikes Sorbent Material Foams	
Air Release	Water Spray Foam Alarm System Evacuation Routes	

10.2 Personnel Roles and Lines of Authority

The On-Site Manager has primary responsibility for responding to and correcting emergency situations. This includes taking appropriate measures to ensure the safety of site personnel and the public. Possible actions may involve evacuation of personnel from the site area, and evacuating adjacent residents. He/she is additionally responsible for ensuring that corrective measures have been implemented, appropriate authorities notified, and follow-up reports completed. The HSO may be called upon to act on behalf of the site supervisor, and will direct responses to any medical emergency. The individual contractor organizations are responsible for assisting the project manager in his/her mission within the parameters of their scope of work.

10.3 Emergency Recognition/Prevention

Table 3.1 provides a listing of chemical and physical hazards onsite. Additional hazards as a direct result of site activities are listed in Table 10.1 as are prevention and control techniques/mechanisms. Personnel will be familiar with techniques of hazard recognition from reassignment training an site specific briefings. The HSO is responsible for ensuring the prevention devices or equipment is available to personnel.

10.4 Evacuation Routes/Procedures

In the event of an emergency which necessitates an evacuation of the site, the following alarm procedures will be implemented:

- Evacuation alarm notification should be made using three short blasts on the air horn. All personnel should evacuate upwind of any activities. Insure that a predetermined location is identified off-site in case of an emergency, so that all personnel can be accounted for.
- Personnel will be expected to precede to the closest exit with your buddy, and mobilize to the safe distance area associated with the evacuation route. Personnel will remain at that area until the re-entry alarm is sounded or an authorized individual provides further instructions.

Figure 10.1 provides a map depicting evacuation routes for the site and immediate area. Also indicated are muster areas and safe distances in the event of a major incident. The nearest medical facility is Southern Hills Medical Center at 391 Wallace Road (Figure 1).

10.5 Emergency Contact/Notification System

The following list provides names and telephone numbers for emergency contact personnel. In the event of a medical emergency, personnel will take direction from the HSO and notify the appropriate emergency organization. In the event of a fire or spill, the site supervisor will notify the appropriate local, state and federal agencies.

Organization	Contact	Telephone
Ambulance		911
Police		862-7400
Fire		327-1300
Hospital	Southern Hills Medical Center	781-4600
Poison Control Center		322-6435
Regional EPA		(404) 347-4727
General Emergency		911
Tennessee Occupational Medicine (non-emergency)		321-4800
Utility One Call		366-1987
Tennessee Emergency Response Center		741-0001
State Authority		741-7391
National Response Center		(800) 424-8802
Center for Disease Control		(404) 488-4100
Chemtrec		(800) 424-9555 or 724-9300
Signal Environmental Services, Inc.		(615) 265-9551

10.6 Emergency Medical Treatment Procedures

Any person who becomes ill or injured in the exclusion zone must be decontaminated to the maximum extent possible. If the injury or illness is minor, full decontamination should be completed and first aid administered prior to transport. If the patient's condition is serious, at least partial decontamination should be completed (i.e., complete disrobing of the victim and redressing in clean coveralls or wrapping in blanket). First aid should be administered while awaiting an ambulance or paramedics. All injuries and illnesses must immediately be reported to the project manager.

Any person being transported to a clinic or hospital for treatment should take with them information on the chemical(s) they have been exposed to at the site. This information is included in Table 3.1.

Any vehicle used to transport contaminated personnel will be treated and cleaned as necessary.

10.7 Fire or Explosion

In the event of a fire or explosion, the local fire department should be summoned immediately. Upon their arrival, the project manager or designated alternate will advise the fire commander of the location, nature and identification of the hazardous materials onsite.

If it is safe to do so, site personnel may:

- use fire fighting equipment available onsite to control or extinguish the fire; and,
- Remove or isolate flammable or other hazardous materials onsite.

10.8 Spill or Leaks

In the event of a spill or leak, site personnel will:

- Inform their supervisor immediately;
- Locate the source of the spillage and stop the flow if it can be done safely; and,
- Begin containment and recovery of the spilled materials.

10.9 Emergency Equipment/Facilities

Figure 2 provides a map of the site and identifies the location of the following emergency equipment:

- First aid kit
- Fire extinguisher (moved as work progresses)
- Site telephone
- Stretcher
- Eye wash (moved as work progresses)
- Emergency shower
- Real time air equipment

11.0 Confined Space Entry Procedures

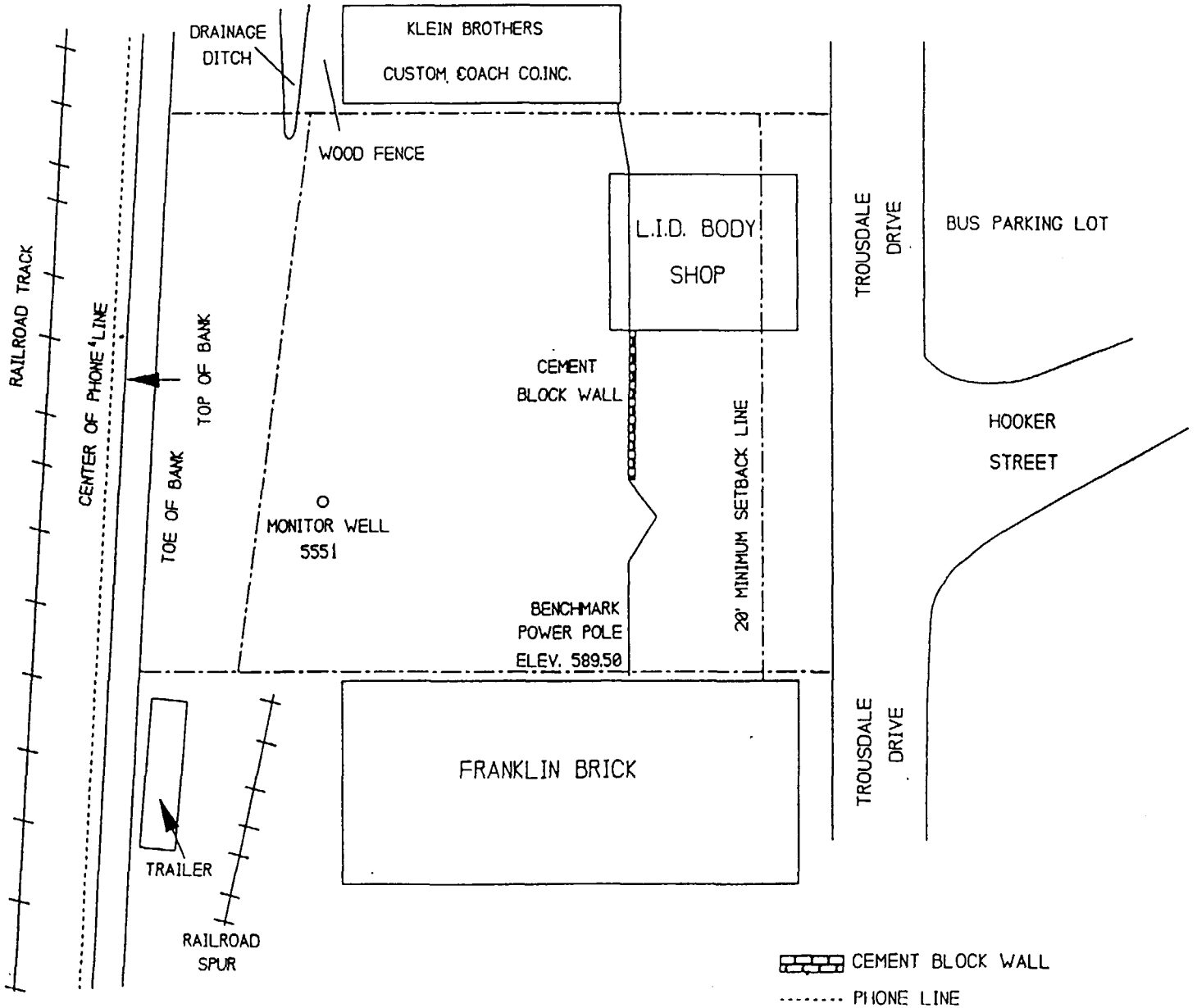
A confined space provides the potential for unusually high concentrations of contaminants, explosive atmospheres, limited visibility, and restricted movement. This section will establish requirements for safe entry into, continued work in, and safe exit from confined spaces. All confined space work will be in full compliance with OSHA Standard 29 CFR 1910.146, "Permit Required Confined Spaces". Additional information regarding confined space entry can be found in 29 CFR 1926.21, 29 CFR 1910 and NIOSH 80-106.

11.1 Definitions

- Confined Space: A space or work area not designed or intended for normal human occupancy, having limited means of egress and poor natural ventilation; and/or any structure, including buildings or rooms, which means of egress.
- Confined Space Entry Permit (CSEP): A document to be initiated by the supervisor of personnel who are to enter into or work in a confined space. The Confined Space Entry Permit (CSEP) will be completed by the personnel involved in the entry and approved by the HSO before personnel will be permitted to enter the confined space. The CSEP shall be valid only for the performance of the work identified and for the location and time specified. The beginning of a new shift with change of personnel will require the issuance of a new CSEP.
- Confined Space Observer: An individual assigned to monitor the activities of personnel working within a confined space. The confined space observer monitors and provides external

FIGURE 2

SAAD SITE PLAN



assistance to those inside the confined space. The confined space observer summons rescue personnel in the event of emergency and assists the rescue team.

11.2 General Provisions

- When possible, confined spaces should be identified with a posted sign which reads: Caution - Confined Space.
- Only personnel trained and knowledgeable of the requirements of these Confined Space Entry Procedures will be authorized to enter a confined space or be a confined space observer.
- A Confined Space Entry Permit (CSEP) must be issued prior to the performance of any work within a confined space. The CSEP will become a part of the permanent and official record of the site. During the period of work in the confined space, the CSEP will be posted at the entry portal.
- Natural ventilation shall be provided for the confined space prior to initial entry and for the duration of the CSEP. Forced air ventilation will be used to maintain safe air conditions.
- If flammable liquids may be contained within the confined space, explosion proof equipment will be used. All equipment shall be positively grounded.
- The contents of any confined space shall, where necessary, be removed prior to entry. All sources of ignition must be removed prior to entry. Sources of hazardous air contaminants and unnecessary energy will be isolated by breaking and blanding lines and by lock-out/tag-out procedures.
- Hand tools used in confined spaces shall be in good repair, explosion proof and spark proof, and selected according to intended use. Where possible, pneumatic power tools are to be used.
- Hand-held lights and other illumination utilized in confined spaces shall be equipped with guards to prevent contact with the bulb and must be explosion proof.
- Confined space atmospheres will be tested for hazardous conditions as a part of the CSEP procedure prior to entry.
- If unacceptable atmospheric conditions are found, entry will be postponed until the condition is corrected and verified by re-testing.
- Compressed gas cylinders, except cylinders used for self-contained breathing apparatus, shall not be taken into confined spaces. Gas hoses shall be removed from the space and the supply turned off at the cylinder valve when personnel exit from the confined space.
- If a confined space requires respiratory equipment or where rescue may be difficult, safety belts, body harnesses, and lifelines will be used. The outside observer shall be provided with the same equipment as those working within the confine space.

- A ladder is required in all confined spaces deeper than the employee's shoulders. The ladder shall be secured and not removed until all employees have exited the space.
- Only self-contained breathing apparatus or NIOSH approved airline respirators equipped with a 5-minute emergency air supply with conditions determined immediately dangerous to life or health.
- Where air-moving equipment is used to provide ventilation, chemicals shall be removed from the vicinity to prevent introduction into the confined space.
- Vehicles or any other internal combustion engine powered equipment shall not be left running near confined space work or near air-moving equipment being used for confined space ventilation.
- Smoking in confined spaces will be prohibited at all times.
- Any deviation from these Confined Space Entry Procedures requires the prior permission of the On-Scene Coordinator.

11.3 Procedure for Confined Space Entry

The HSO and Entry Team shall:

- Evaluate the job to be done and identify the potential hazards before a job in a confined space is scheduled.
- Ensure that all process piping, mechanical and electrical equipment, etc., have been disconnected, purged, blanked-off or locked and tagged as necessary.
- If possible, ensure removal of any standing fluids that may produce toxic or air displacing gases, vapors, or dust.
- Initiate a Confined Space Entry Permit (CSEP) in concurrence with the project manager or designated alternative.
- Ensure that any hot work (welding, burning, open flames, or spark producing operation) that is to be performed in the confined space has been approved by the project manager and is indicated on the CSEP.
- Ensure that the space is ventilated before starting work in the confined space and for the duration of the time the work is to be performed in the space.
- Ensure that the personnel who enter the confined space and the confined space observer helper are familiar with the contents and requirements of this instruction.
- Ensure remote atmospheric testing of the confined space prior to employee entry and before validation/revalidation of a CSEP to ensure that Oxygen content is between 19.5% - 23.0%; that no concentration of combustible gas is in the space (sampling will be done throughout the

confined space and specifically at the lowest point in the space); the absence of other atmospheric contaminants above the action level if the space has toxic, corrosive, or irritant material; and if remote testing is not possible, Level B PPE is required as referenced in III 13.

- Designate whether hot or cold work will be allowed. If all tests in a. through c. in IV 8 are satisfactory, complete the CSEP listing any safety precautions, protective equipment, or other requirements.
- Ensure that a copy of the CSEP is posted at the work site, a copy is filed with the project supervisor, and a copy is furnished to the project manager.

The CSEP shall be considered void if work in the confined space does not start within on hour after the tests in IV 8 are performed or if significant changes within the confined space atmosphere or job scope occurs.

The CSEP posted at the work site shall be removed at the completion of the job or at the end of the shift, whichever is first.

11.4 Confined Space Observer

- While personnel are inside the confined space, a confined space observer will monitor activities and provide external assistance to those in the space.
- The confined space observer shall maintain at least voice contact with all personnel in the confined space. Visual contact is preferred, if possible.
- The observer shall be instructed by his supervisor in the method for contacting rescue personnel in the event of an emergency.
- If irregularities within the space are detected by the observer, personnel within the space will be ordered to exit.
- In the event of an emergency, the observer must NEVER enter the confined space prior to contacting and receiving assistance form a helper. Prior to this time, he should attempt to remove personnel with the lifeline and to perform all other rescue functions from outside the space.
- A helper shall be designated to provide assistance to the confined space observer in case the observer must enter the confined space to retrieve personnel.

12.0 Spill Containment Program

The procedures defined in this section comprise the spill containment program in place for activities at the Site.

- All drums and containers used during the clean-up shall meet the appropriate DOT, OSHA, and EPA regulators for the waste that they contain.
- Where spills, leaks, or raptures may occur, adequate quantities of spill containment equipment (absorbent, pillows, etc.) will be stationed in the immediate area. The spill containment program must be sufficient to contain and isolate the entire volume of hazardous substances being transferred.
- Fire extinguishing equipment meeting 29 CFR 1910 subpart I shall be on hand and ready for use to control fires.

13.0 Hazard Communication

In order to comply with 29 CFR 1910.1200, Hazardous Communication, the following written Hazardous Communication Program has been established. All employees will be briefed on this program, and have a written copy for review.

13.1 Container Labeling

All containers received on site will be inspected to ensure the following:

- All containers will be clearly labeled as to the contents
- The appropriate hazard warnings will be noted
- The names and address of the manufacture will be listed

All secondary containers will be labeled with either an extra copy of the original manufacture's label or with generic labels which have a block for identification and a block for the hazard warning.

13.2 Material Safety Data Sheets (MSDSs)

Copies of MSDSs for all hazardous chemicals known or suspected on site will be maintained in the work area. MSDSs will be available to all employees for review during each workshift.

13.3 Employee Training and Information

Prior to starting work, each employee will attend a health and safety orientation and will receive information and training on the following:

- An overview of the requirements contained in the Hazardous Communication Standard, 29 CFR 1910.1200
- Chemicals present in their workplace operations
- Location and availability of a written hazard program
- Physical and health effects of the hazardous chemicals
- Methods and observation techniques used to determine the presence or release of hazardous chemicals
- How to lessen or prevent exposures to these hazardous chemicals through usage of control/work practices and personal protective Equipment
- Emergency procedures to follow if they are exposed to these chemicals
- How to read labels and review MSDSs to obtain appropriate hazard information
- Location of MSDS file and location of hazardous chemical list

Appendix A

SITE SAFETY LOG

Project: Location: Date: Sheet

Personnel: Safety Officer Others:

Known Hazards:

Weather:

SITE ACTIVITIES - Include instruments used, callbration, instrument readings, injuries, use, visitors, etc.

TIME	ACTIVITIES

Appendix B

KNOWN ON-SITE CHEMICAL COMPOUNDS AND SELECTED CHARACTERISTICS

NOTE: The compounds or farming of compounds listed below have been identifi samples taken from soil and waters form previous sampling events at the S

Information regarding chemical characteristics included in this list was taken Hawley's Condensed Chemical Dictionary, 11th Edition; Rev. by N.I. Sax and R.L. Lewis All TLV-TVA information was taken from the 1990-1991 Threshold Limit Values for Chem Substances and Physical Agents and Biological Exposure Indices compiled by the Ame Conference of Governmental Industrial Hygienists (ACGIH). All IDLH and exposure sym information was taken from the National Institute for Occupational Safety and Health (NIO Pocket Guide to Chemical Hazards - 1990.

Ethylbenzene (CAS # 100-41-4)
Properties: Colorless liquid, aromatic odor, vapor heavier than air, flash point = 59F
Hazards: Toxic by ingestion skin absorption and inhalation; irritant to skin and flammable
TLV: 100 ppm
IDLH: 2,000 ppm
Symptoms: Irritation of the eyes and mucous membranes; headache, narcosis and eve coma

Toluene (CAS # 108-88-3)
Properties: Colorless liquid, aromatic odor, flash point = 4OF
Hazards: Toxic by ingestion, inhalation and absorption; flammable
TLV: 100 ppm
IDLH: 2,000 ppm
Symptoms: Fatigue; weakness; confusion; euphoria; dizziness; headache; dilated p lacrimation; nervousness; muscle fatigue; insomnia; paresthesia and derma

Xylene (CAS # 1-D30-20-7)
Properties: Clear liquid, flash point = 81-115F
Hazards: Toxic by ingestion and inhalation, flammable
TLV: 100 ppm
IDLH: 1,000 ppm
Symptoms: Dizziness; excitement; drowsiness; incoordination; staggering gait; irritati eyes, nose and throat; corneal vacuolization; anorexia; nausea; vomiting abdominal pain

Tetrachloroethylene (or Perchloroethylene CAS # 127-18-4)
Properties: Colorless liquid, ether-like odor, flash point - none
Hazards: Irritant to eyes and skin; potential carcinogen
TLV: 50ppm
IDLH: 500 ppm
Symptoms: Irritation of eyes, nose and throat; flushed face and neck; vertigo; diz incoordination; headache; somnolence; skin erythema; liver damage

1,1-Dichloroethane (or Ethylene Chloride CAS # 75-34-3)
Properties: Colorless oily liquid, chloroform-like odor, flash point = 56F
Hazards: Toxic by ingestion, inhalation and skin absorption; strong irritant to ey skin, potential carcinogen; flammable
TLV: 10 ppm
IDLH: 4,000 ppm
Symptoms: Central nervous system depression; nausea; vomiting; dermatitis: irrita eyes; corneal opacity

1,2-Dichloroethylene (CAS # 540-59-0)
Properties: Colorless liquid, pleasant odor, flash point = 39F
Hazards: Toxic by inhalation, ingestion and skin contact; irritant and narcotic ir concentrations; flammable
TLV: 200 ppm
IDLH: 4,000 ppm
Symptoms: Irritation of eyes and respiratory system; central nervous system depression

1,1,1-Trichloroethane (or Methyl Chloroform CAS # 71-55-6)
Properties: Colorless liquid, flash point - none
Hazards: Irritant to eyes and tissue
TLV: 350 ppm
IDLH: 1,000 ppm
Symptoms: Headache; lassitude; central nervous system depression; poor equilibriu irritation; dermatitis and cardiac arrhythmias

Trichloroethylene (CAS # 79-01-6)
Properties: Colorless liquid, chloroform like odor, flash point - none
Hazards: Toxic by inhalation; potential carcinogen
TLV: 50 ppm
IDLH: 1,000 ppm
Symptoms: Headache; vertigo; visual disturbance; tremors: somnolence; nausea; vom eye irritation; dermatitis; cardiac arrhythmias and paresthesia

Vinyl Chloride (CAS # 75-01-4)
Properties: Compressed gas easily liquified, usually handled as liquid, ether-like odor, point = -109F
Hazards: Toxic by all routes of exposure; a carcinogen; highly flammable
TLV: 5 ppm

IDLH: none available
Symptoms: Weakness; abdominal pain; gastrointestinal bleeding; hepatomegaly; pall cyanosis of extremities

Phenol (CAS # 108-95-2)
Properties: White crystalline mass when not in solution, typically used in solution, disti odor, flash point = 172F
Hazards: Toxic by ingestion inhalation and skin absorption; strong irritant to tissue
TLV: 5ppm
IDLH: 250 PPM
Symptoms: Irritation of eyes, nose and throat; anorexia; weight loss; muscle aches and p dark urine; tremors; convulsions; twitching; dermatitis; ochronosis

Naphthalene (CAS # 91-20-3)
Properties: White crystalline flakes, strong coal/tar odor, flash point = 176F
Hazards: Toxic by inhalation
TLV: 10 ppm
IDLH: 500 ppm
Symptoms: Eye irritation; headache; confusion; excitement; malaise; nausea; vom abdominal pain; irritation of the bladder; profuse sweating; jaun hemoglobinuria; renal shutdown and dermatitis

Phenanthrene (CAS # 85-01-8)
Properties: Colorless shining crystals when not in solution
Hazards: A potential carcinogen; combustible
TLV: none available
IDLH: none available

Fluoranthene (CAS # 206-44-0)
Properties: Colored needles when not in solution
TLV: none available
IDLH: none available

Petroleum Hydrocarbons (diesel fuel, motor oil, etc.)
Properties: Viscous liquid (depending on grade), unpleasant odor
Hazards: Toxic by ingestion; local skin irritant; moderate fire risk
TLV: none available
IDLH: none available

Lead (asPb) (CAS # 7439-92-1), as noted per NIOSH, Pocket Guide to Chemical Hazards, 1990" OSHA considers "Lead" to mean metallic Pb, all inorganic Pb compounds (Pb oxides Pb salts) and a class of organic Pb compounds called soaps. All other organic Pb compo are excluded from this definition". No "lead dust" is anticipated at the site.
Properties: Metal, a heavy ductile, soft gray solid
TWA: "Dust" - NIOSH 0.100 mg/m^3

IDLH: 700 mg/m³
Symptoms: Weakness, lassitude, insomnia, facial pallor, anorexia, weight loss, and tremors, encephalopathy, nephropathy, hypotension, irritated eyes

PCB 1248: No data per AGGIH (1991), NIOSH Pocket Guide to Chemical Hazard, Or Vapor/Acid Gas/HEPA dust filters will be mandatory

PCB 1242 - Aroclor 1242 (CAS # 53469-21-9)
PCB, polychlorizated biphenyl, chlordiphenyl (42% chlorine)
Properties: Colorless to light colored, vicious liquid with a mild hydrocarbon odor, BP: 691°F, insolerable, vapor pressure: 0.001 mm. Nonflammable liquid, expo to fire results in formation of black foot, containing PCBs, polychlori debenzoturan, and chlorinated dibenzo-p-dioxins. Carcinogenic (NIO Understudy by ACGIH to Establish Biological Exposure Indices.
Exposure limits: NIOSH - 0.001 mg/m³
TWA OSHA - 1 mg/m³ (skin)
IDLH NIOSH - 10.0 mg/m³
Symptoms: Irritated eyes, chloracne, liver damage.
Protection: Class C PPE will be required for all personnel in the work zone.

Appendix C

LIST OF ON-SITE SAFETY EQUIPMENT

2 4 1235

Full-Face Respirators (x number of on-site workers)

Organic Vapor/Acid Gas and HEPA Respirator Cartridges (x number of on-site

Class D/C protective clothing (disposable clothing *i.e.*, boots, gloves, etc.)

Duct Tape

Steel-Toe Safety Shoes/Boots

First Aid Kit(s)

Eyewash Stations

Safety Glasses (x number of on-site workers)

D.O.T. 17H55 Drums

6 Millimeter Polyethylene Plastic

Hard Hats

Air Horn

Mobile Telephones

Fire Extinguishers (all heavy equipment, one on-site, one at command post)

Water Cooler(s) and Drinking Cups/Electrolite solution >

Photoinization Detector

Explosimeter/Oxygen Meter

Brushes - As required for decontamination - various sizes

Detergent - As required for decontamination

Water Source (hose(s) or tank, if necessary): Water from existing utilities will be use as wash and portable waters

Chemical Exposure Contingency Reference(s) - D.O.T./NIOSH/ACGIH Handbook

Self Contained Breathing Apparatus - with spare cylinder

Spark Free Tools (1 set)

Appendix D

Appendix A
Filter Lenses for Protection Against Radiant Energy

Operations	Electric Size 1/32 Inch	Arc Current	Minimum Protective Shade *
Shielded metal arc welding	Less than 3 3 - 5 5 - 8 More than 8	Less than 60 60 - 160 160 - 250 250 - 550	7 8 10 11
Gas metal arc welding and flux cored arc welding	N/A	Less than 60 60 - 160 160 - 250 250 - 500	7 10 10 10
Gas Tungsten arc welding	N/A	Less than 50 50 - 150 150 - 500	8 8 10
Air carbon Arc cutting	(Light) (Heavy)	Less than 500 500 - 1000	10 11
Plasma arc welding	N/A	Less than 20 20 - 100 100 - 400 400 - 800	6 8 10 11
Plasma arc cutting	(Light)** (Medium)** (Heavy)**	Less than 300 300 - 400 400 - 800	8 9 10
Torch brazing Torch soldering Carbon arc welding	N/A	N/A	3 2 14
Gas Welding: Light Medium Heavy	 Under 1/8 1/8 to 1/2 Over 1/2	 Under 3.2 3.2 to 12.7 Over 12.7	 4 5 6
Oxygen Cutting: Light Medium Heavy	 Under 1 1 to 6 Over 6	 Under 25 25 to 150 Over 150	 3 4 5

* As a rule of thumb, start with a shade that is too dark to see the weld zone. Then go to a lighter shade giving sufficient vi of the weld zone without going below the minimum. In oxyfuel gas welding or cutting where the torch produces a high yell light, it is desirable to use a filter lens that absorbed the yellow or sodium line in the (spectrum) operation.

** These values apply where the actual arc is clearly seen. Experience has shown that lighter filters may be used when arc is hidden by the workpiece.

Appendix B
Eye and Face Protection Selection Chart

Source	Assessment of Hazard	Protection
IMPACT - Chipping, grinding, masonry work, woodworking, sawing, drilling, chiseling, powered fastening, riveting and sanding	Flying fragments, objects, large chips, particles of sand, dirt, etc.	Spectacles with side protection, goggles, face shields. See notes (1), (3), (5), (6), (10). For severe exposure, use faceshield.
HEAT - Furnace operations, pouring, casting, hot dipping and welding	Hot sparks	Faceshields, goggles, spectacles with side protection. For severe exposure use face shield. See notes (1), (2), (3).
	Splash from molten metals	Faceshields worn over goggles. See notes (1), (2), (3).
	High temperature exposure	Screen face shields, reflective face shields. See notes (1), (2), (3).
CHEMICALS - Acid and chemicals handling, degreasing and plating	Splash	Goggles, eyecup and cover types. For sever exposure, use face shield. See notes (3), (11).
	Irritant mists	Special-purpose goggles.
DUST - Woodworking, buffing, general dusty conditions	Nuisance dust	Goggles, eyecup and cover types. See note (8).
LIGHT and/or RADIATION -		
Welding: Electric arc	Optical radiation	Welding helmets or welding shields. Typical shades: 10 - 14. See notes (9), (12).
Welding: Gas arc	Optical radiation	Welding goggles or welding face shields. Typical shades: gas welding 4-8, cutting 3-6, brazing 3-4. See note (9).
Cutting, Torch brazing, Torch soldering	Optical radiation	Spectacles or welding face-shield. Typical shades: 1.5 - 3. See notes (3), (9).
Glare	Poor vision	Spectacles with shaded or special-purpose lenses, as suitable. See notes (9), (10).

Notes to Eye and Face Protection Selection Chart:

(1) Care should be taken to recognize the possibility of multiple and simultaneous exposure t variety of hazards. Adequate protection against the highest level of each of the hazards sho be provided. Protective devices do not provide unlimited protection.

(2) Operations involving heat may also involve light radiation. As required by the standa protection from both hazards must be provided.

(3) Faceshields should be worn over primary eye protection (spectacles or goggles).

(4) As required by the standard, filter lenses must meet the requirements for shade designation §1910.133(a)(5). Tinted and shaded lenses are *not* filter lenses unless they are marked identified as such.

(5) As required by the standard, persons whose vision requires the use of prescription lenses m wear either protective devices fitted with prescription lenses or protective devices designed be worn over the regular prescription eyewear.

(6) Wearers of contact lenses must also wear appropriate eye and face protection devices ir hazardous environment. It should be recognized that dusty and/or chemical environments m present an additional hazard to contact lens wearers.

(7) Caution should be exercised in the use of metal frame protection devices in electrical haza areas.

(8) Atmospheric conditions and the restricted ventilation of the protector can cause lenses to f Frequent cleansing may be necessary.

(9) Welding helmets or faceshields should be used only over primary eye protection (spectacles goggles).

(10) Non-sideshielded spectacles are available for frontal protection only, but are not acceptable protection for the sources and operations listed for "impact."

(11) Ventilation should be adequate, but well protected from splash entry. Eye and face protect should be designed and used so that it provides both adequate ventilation and protects wearer from splash entry.

(12) Protection from light radiation is directly related to filter lens density. See note (4). Select darkest shade that allows task performance.

Appendix D
SCBA Monthly Inspection Checklist

Backpack Number: _____ Air Cylinder Number: _____

Inspected by: _____ Date: ____/____/____

BACKPACK AND HARNESS ASSEMBLY		Satisfactory (S) or Action(s) Required
Straps	• Inspect for complete set • Inspect for damaged straps	
Buckles	• Inspect for mating ends • Check locking function	
Backplate and cylinder lock	• Inspect Backplate for cracks, missing screws/rivets • Inspect cylinder hold down strap • Inspect strap tightener	

CYLINDER AND CYLINDER VALVE ASSEMBLY		Satisfactory (S) or Action(s) Required
Cylinder	• Cylinder tight to Backplate • Current hydrostatic test • Inspect cylinder for dents/gouges	
Head and Valve Assembly	• Inspect cylinder valve lock • Inspect cylinder gauge for condition • Proper function or cylinder valve lock • Test for cylinder valve leakage	

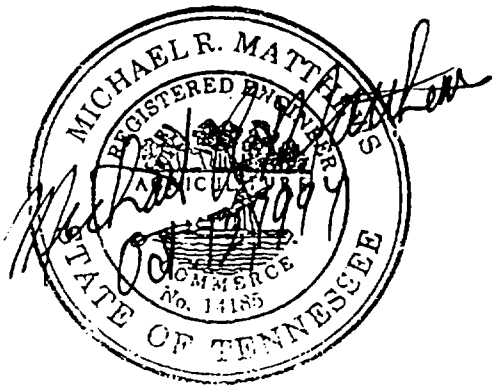
REGULATOR HIGH PRESSURE HOSE		Satisfactory (S) or Action(s) Required
High Pressure Hose and Connector	• Leakage in hose • Leakage in hose to cylinder connector	
Regulator and Low Pressure Alarm	• Read regulator gauge (at least 1500 psi) • Low pressure alarm sounds at 500-650 psi • Test integrity of diaphragm • Test for positive pressure • Test by-pass system	

FACEPIECE AND CORRUGATED BREATHING TUBE		Satisfactory (S) or Action(s) Required
Facepiece	• Inspect harness for deterioration • Inspect facepiece body for deterioration • Inspect lens • Inspect Exhalation Valve	
Breathing Tube and Connector	• Inspect breathing tube for deterioration • Inspect connector threads and gaskets	
Leak Test and Cleaning	• Perform negative pressure test on facepiece/breathing tube • Clean and sanitize facepiece	

APPENDIX 3

2 4 1245

SAMPLING WORK PLAN
for
SAAD SITE
NASHVILLE, TENNESSEE



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Chattanooga, Tennessee

October 1994

Table of Contents

Tables

Appendices

1.0 Background

The objective of this Sampling and Analysis Plan is to provide in written form the sampling and analysis protocols to be used at the Saad Site in Nashville, Tennessee. This plan is modeled after the Environmental Protection Agency's Environmental Compliance Branch Standard Operating Procedures (SOP) and Quality Assurance (QA) Manual. This plan is excerpted from EPA's manual for the specific applications at the Saad Site.

2.0 Soil Sampling

Soil sampling will be conducted using stainless steel augers or stainless steel spoons. Augers or sampling spoons will be advanced so that samples will be collected at the 6-12" interval. Each sample will be uniquely identified (see sample labeling section) and placed in a glass container with a teflon-lined lid. Sampling procedures used, location of samples, sample identification numbers used, and other pertinent data will be recorded permanently in bound, weaterproof field notebooks. The data recorded in the field notebooks will be written in fine point permanent ink. The field book will contain the investigator's name, project name, and other pertinent daily project information.

3.0 Composite/Split Sample Handling

Compositing of soil samples will not be done in the field but will be performed by the laboratory immediately before analysis.

In the event that split sampling will be done in the field the following method will be used. The soil to be split will be placed in a shallow stainless steel container. The soil in the pan will be split into quarters using a stainless steel sampler. Each quarter will be mixed separately, then all the quarters are mixed together. This procedure is then repeated several times until the sample is adequately mixed. Samples that might be collected for purgeable organics will not be mixed.

4.0 Sample Locations/Volume

Five different types of samples will be collected: (1) soil samples for site characterization, (2) excavated soil samples, (3) decon water samples, (4) final soil sampling, and (5) sampling for quality assurance.

4.1 Site Characterization

Characterization of site soils will be necessary at the beginning of the project to prepare waste profile data for the offsite disposal of the excavated soil. Soil samples will be collected to prepare the necessary waste profiles. To the extent possible existing soil data from previous site work will be used to characaterize the site soil.

4.2 Excavated Soil Samples

Every 15 cubic yards of soil that is excavated will have two (2) four-ounce samples collected from it. As 15 cubic yards of soil is removed and placed in a temporary pile it will be sampled on each side from a depth of 6-12". Each stockpile of 105 cubic yards will have 14 samples. Seven of the samples will be composited into one sample for analysis. The remaining seven samples will be archived at the laboratory for 90 days for possible future analysis.

4.3 Decon Water Sampling

Decon water will be contained on site until completion of the site work. Prior to disposal a water sample will be collected in order to prepare a waste profile. Parameters for analysis of this sample will be based on the results of the soil analyses.

4.4 Final Site Soil Sampling

Soil samples will be collected on each of the pit walls to determine the characteristics of the soil that remained in the ground. Two samples from each of the four side walls (north, south, east, and west) will be collected. One sample will be taken at an 18" depth from the surface and the second sample will be taken at the bottom of the excavation. These eight samples will be sent to the laboratory to be composited for four analyses (one composite analysis per wall).

4.5 Soil Volume

Soil samples will be collected in four-ounce glass sample containers with Teflon coated lids. However, no less than 16 ounces of soil will be submitted for a single analysis. Actual analysis requires a minimum of 300 grams.

4.6 Quality Assurance Sampling

Data quality objectives are of the highest level (level IV) as described in the EPA SOP and QA Manual. As such, all sampling will be documented in the field log book. Data entries will be legible and include all appropriate documentation as described elsewhere. All field sampling will be documented in the field book and have an associated chain of custody. Every tenth sample will have a duplicate sample collected and submitted for analysis. The sample ID number will be the same as the original sample with the addition of the letters "DUP" to the end of the ID label.

If volatile organics or metals are checked in the soil samples or water sample, a soil and/or water VOA trip blank and an inorganic water trip blank will be submitted for analysis. Trip blanks will be prepared by Analytical Industrial Research Laboratory. These trip blanks will be carried into the field and handled along with the other samples and submitted for analysis. Trip blanks will help determine if sampling procedures potentially introduced contaminants into samples. At least one of each type of trip blank will be prepared and submitted.

An equipment blank will be prepared to determine the suitability of equipment cleaning. Deionized water will be run over cleaned equipment and the rinseate collected in a sample bottle preserved with HNO_3. The rinseate will then be analyzed for metals to determine the suitability of the equipment cleaning.

4.6.1 Special Sampling Considerations

Collection of soil samples for VOA analysis will minimize disturbance of the sample. Samples will be placed directly from the sampling equipment into containers with ***no head space***. No VOA samples will be mixed. All other soil samples will be mixed in the laboratory prior to analysis.

4.6.2 Cleaning Procedures for Sampling Equipment

All sampling equipment will be stainless steel augers or spoons. Cleaning of this equipment will be performed as follows:

(1) Wash equipment thoroughly with Alconox (or similar laboratory equipment) and hot water, using a brush to remove any particulate matter or surface film.
(2) Rinse equipment thoroughly with hot tap water.

(3) Rinse equipment thoroughly with deionized water.
(4) Rinse equipment twice with solvent and allow to air dry for at least 24 hours.
(5) Wrap equipment in one layer of aluminum foil. Roll edges of foil into a "tab" to allow for easy removal. Seal the foil-wrapped equipment in plastic and date.
(6) Rinse the stainless steel or metal sampling equipment thoroughly with tap water in the field as soon as possible after use.

5.0 Sample Labeling

A sample of the type of label to be used on sample containers is in Appendix 1. Labels will be prepared with waterproof permanent ink. Time of collection, sampler signature, project name, sample ID number, date, type of sample (soil or water), preservative (if any), and parameters requested will be written on the label. The attached sample label is filled in as it would be for a typical soil sample.

Samples will be identified with a unique numbering system. A typical soil sample number would look like this:

DEM10/10S1ADUP

Where:

- "DEM" is the Project Code
- "10/10" is the date (month and day) of sample
- "S" or "W" indicates either a soil or water sample
- "1", "2", etc. is the sample number
- The letters "A", "B", "C", etc. designate stockpile or other soil location
- "DUP" indicates that the sample is a duplicate

6.0 Chain of Custody/Custody Seals

A chain of custody will be prepared for all samples submitted to the laboratory for analysis. A sample chain of custody is included in Appendix 1.

Custody seals will be placed on each sample jar and/or shipping container. The labels will be prepared using permanent ink. A sample custody seal is provided in Appendix 1. The custody seals will be returned to Signal from the laboratory and kept with the permanent record. Copies of the seals will be submitted along with the results of the soil sampling for the final report.

7.0 Sample Preservation/Shipment

Collected soil samples (contained in glass jars with Teflon-coated lids) will be placed in ziplock bags. The plastic bags containing samples will be placed in an ice chest for shipment to the laboratory for analysis. The samples will be preserved using ice or ice packs. Shipment to the laboratory will be by Federal Express or local bus service. In certain cases samples will be transported by Signal personnel directly to the laboratory.

8.0 Parameters and Methodologies

Analytical work will be performed by Analytical Industrial Research Laboratory in Chattanooga, Tennessee. Copies of the QA/QC procedures for the laboratory are on file at the Signal office, and are available for inspection upon request.

The parameters shown in Table 1 will be analyzed for using the methodologies shown in the same table.

C:\WPWIN60\FILES\DEM1SAMP.PLN

Appendix 1

Sample Labeling and Custody Seals

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES
4295 CROMWELL RD., SUITE 614
CHATTANOOGA, TN 37421-2177

Report To: _____

Invoice To: _____

Chain of Custody Record

Page ____ of ____

PROJECT SITE	PO#	NO. OF CONTAINERS	ANALYSES								
SITE NAME											DATE REPORT DUE
COLLECTED BY *(Signature)*											VERBAL/FAX/HARDCOPY
FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME								REMARKS / LAB ID NO. *(for lab use only)*

REMARKS	RELINQUISHED BY:	DATE	TIME

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:

REMARKS:

2 4 1255

SIGNAL ENVIRONMENTAL SERVICES, INC.
900 Manufacturers Rd., P.O. Box 4270
Chattanooga, TN 37405

Sample # DEM10/10S1A

Client Name de MAXIMUS 10/13/94

Analysis Requested TCLP

Sample Source SOIL Preservative NONE

Sampler Greg Veal

SIGNAL ENVIRONMENTAL SERVICES, INC. 900 Manufacturers, P.O. Box 4270 Chattanooga, TN 37405	Sample # DEM10/10S1A	Date 10/13/94	Seal Broken By:
	Signature Michael R Matthews		
	Print Name and Title MICHAEL MATTHEWS V.P.- ENGINEERING		Date

Examples of Completed Sample Labels

241254

APPENDIX 4

OPERATIONS LABORATORY SERVICES CONSULTATION

ANALYTICAL INDUSTRIAL RESEARCH LABORATORY

4295 Cromwell Road, Suite 614
Chattanooga, Tennessee 37421-2177
(615) 894-8102

2 4 4256

LAB. NO.:941028-17431

CUSTOMER: 1237
SIGNAL ENVIRONMENTAL SERVICES
P.O. BOX 4270
CHATTANOOGA, TN 37405

DATE RECD. : 10/28/94
SAMPLE DATE: 10/27/94

ATTENTION:MICHAEL MATTHEWS
(615) 265-9551 FAX:

DATE REQUESTED :
CUST P.O.:

SAMPLE :SAAD - DEM-1 SAAD NASHVILLE
:SAMPLE A & B

ASAP

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ANALYSIS

TCLP TOXICITY CHARACTERISTIC CONSTITUENTS
W/O HERB & PEST (SEE ATTACHED)

			M.D.L.	Methods	Date	Initial
pH	8.9	pH Units	N/A	150.1	10-31-94	JJ/PG
Flash Point	>200	F	N/A	1010	11-08-94	TB
PCB's	<1	ppm	1	8080	11-08-94	MW

TOTAL PETROLEUM HYDROCARBONS

DRO	140	mg/Kg	1.0	DRO	11-08-94	LG
GRO	<1.0	mg/Kg	1.0	GRO	11-08-94	LG

Soil Pad #1

Notes:

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

We hereby certify that the analytical procedures employed are those approved by the Environmental Protection Agency or other applicable methods for these analyses.

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES

By Ray B. Patterson

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., STE 611
CHATTANOOGA, TN 37421-2177

AIRL SAMPLE I.D. 17431 **TCLP METHOD 1311**
SIGNAL ENVIRONMENTAL SERVICES **SAMPLE DATE: 10/27/94**
SAMPLE: SAAD SAMPLE A&B

EPA HW NUMBER	CONSTITUENT	REGULATORY LEVEL(mg/L)	MDL (mg/L)	RESULT (mg/L)	DATE ANALYZED	METHOD (SW-846)
TCLP VOLATILES (ZHS)						
D018	BENZENE	0.5	0.1	ND	11/08/94	8240
D019	CARBON TETRACHLORIDE	0.5	0.1	ND	11/08/94	8240
D021	CHLOROBENZENE	100.	10.	ND	11/08/94	8240
D022	CHLOROFORM	6.0	1.0	ND	11/08/94	8240
D027	1,4-DICHLOROBENZENE	7.5	1.0	ND	11/08/94	8240
D028	1,2-DICHLOROETHANE	0.5	0.1	ND	11/08/94	8240
D029	1,1-DICHLOROETHYLENE	0.7	0.1	ND	11/08/94	8240
D035	METHYL ETHYL KETONE	200.	20	ND	11/08/94	8240
D039	TETRACHLOROETHYLENE	0.7	0.1	ND	11/08/94	8240
D040	TRICHLOROETHYLENE	0.5	0.1	ND	11/08/94	8240
D043	VINYL CHLORIDE	0.2	0.1	ND	11/08/94	8240
TCLP SEMIVOLATILES						
TCLP ACIDS						
D023	o-CRESOL	200	1.0	ND	11/03/94	8270
D024	m-CRESOL	200	1.0	ND	11/03/94	8270
D025	p-CRESOL	200	1.0	ND	11/03/94	8270
D026	CRESOLS (TOTAL)	200	1.0	ND	11/03/94	8270
D037	PENTACHLOROPHENOL	100	1.0	ND	11/03/94	8270
D041	2,4,5-TRICHLOROPHENOL	400	1.0	ND	11/03/94	8270
D042	2,4,6-TRICHLOROPHENOL	2.0	1.0	ND	11/03/94	8270
TCLP BASE/NEUTRALS						
D030	2,4-DINITROTOLUENE	0.13	0.05	ND	11/03/94	8270
D032	HEXACHLOROBENZENE	0.13	0.05	ND	11/03/94	8270
D033	HEXACHLORO-1,3-BUTADIENE	0.5	0.1	ND	11/03/94	8270
D034	HEXACHLOROETHANE	3.0	0.5	ND	11/03/94	8270
D036	NITROBENZENE	2.0	1.0	ND	11/03/94	8270
D038	PYRIDINE	5.0	2.5	ND	11/03/94	8270
TCLP METALS						
D004	ARSENIC	5.0	0.5	ND	11/02/94	6010
D005	BARIUM	100	5.0	ND	11/02/94	6010
D006	CADMIUM	1.0	0.1	ND	11/02/94	6010
D007	CHROMIUM	5.0	0.5	ND	11/02/94	6010
D008	LEAD	5.0	0.5	ND	11/02/94	6010
D009	MERCURY	0.2	0.01	ND	11/02/94	7470
D010	SELENIUM	1.0	0.1	ND	11/02/94	6010
D011	SILVER	5.0	0.5	ND	11/02/94	6010

Performed in accordance with 40 CFR 261(06/29/90)

OPERATIONS LABORATORY SERVICES CONSULTATION

ANALYTICAL INDUSTRIAL RESEARCH LABORATORY
4295 Cromwell Road, Suite 614
Chattanooga, Tennessee 37421-2177
(615) 894-8102

2 4 1258

LAB. NO.: 941104-17762

CUSTOMER: 1237
SIGNAL ENVIRONMENTAL SERVICES
P.O. BOX 4270
CHATTANOOGA, TN 37405

DATE RECD. : 11/04/94
SAMPLE DATE: 11/03/94

ATTENTION: MICHAEL MATTHEWS
(615) 265-9551 FAX:

DATE REQUESTED:
CUST P.O.: DEM-1

SAMPLE : SAAD NASHVILLE SAAD SITE
: 7 SOILS TO COMPOSITE

ASAP

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ANALYSIS

TCLP TOXICITY CHARACTERISTIC CONSTITUENTS:

SEE ATTACHED

Notes:

ALL RESULTS RECORDED IN PPM OR MG/L UNLESS OTHERWISE STATED.

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

We hereby certify that the analytical procedures employed are those approved by the Environmental Protection Agency or other applicable methods for these analyses.

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES

By Ray R. Patterson

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., STE 611
CHATTANOOGA, TN 37421-2177

AIRL SAMPLE I.D. 17762 **TCLP METHOD 1311**
SIGNAL ENVIRONMENTAL SERVICES **SAMPLE DATE: 11/03/94**
SAMPLE: SOIL COMPOSITE

EPA HW NUMBER	CONSTITUENT	REGULATORY LEVEL(mg/L)	MDL (mg/L)	RESULT (mg/L)	DATE ANALYZED	METHOD (SW-846)
TCLP VOLATILES (ZHS)						
D018	BENZENE	0.5	0.1	ND	11/09/94	8240
D019	CARBON TETRACHLORIDE	0.5	0.1	ND	11/09/94	8240
D021	CHLOROBENZENE	100.	10.	ND	11/09/94	8240
D022	CHLOROFORM	6.0	1.0	ND	11/09/94	8240
D027	1,4-DICHLOROBENZENE	7.5	1.0	ND	11/09/94	8240
D028	1,2-DICHLOROETHANE	0.5	0.1	ND	11/09/94	8240
D029	1,1-DICHLOROETHYLENE	0.7	0.1	ND	11/09/94	8240
D035	METHYL ETHYL KETONE	200.	20	ND	11/09/94	8240
D039	TETRACHLOROETHYLENE	0.7	0.1	ND	11/09/94	8240
D040	TRICHLOROETHYLENE	0.5	0.1	ND	11/09/94	8240
D043	VINYL CHLORIDE	0.2	0.1	ND	11/09/94	8240
TCLP SEMIVOLATILES						
TCLP ACIDS						
D023	o-CRESOL	200	1.0	ND	11/09/94	8270
D024	m-CRESOL	200	1.0	ND	11/09/94	8270
D025	p-CRESOL	200	1.0	ND	11/09/94	8270
D026	CRESOLS (TOTAL)	200	1.0	ND	11/09/94	8270
D037	PENTACHLOROPHENOL	100	1.0	ND	11/09/94	8270
D041	2,4,5-TRICHLOROPHENOL	400	1.0	ND	11/09/94	8270
D042	2,4,6-TRICHLOROPHENOL	2.0	1.0	ND	11/09/94	8270
TCLP BASE/NEUTRALS						
D030	2,4-DINITROTOLUENE	0.13	0.05	ND	11/09/94	8270
D032	HEXACHLOROBENZENE	0.13	0.05	ND	11/09/94	8270
D033	HEXACHLORO-1,3-BUTADIENE	0.5	0.1	ND	11/09/94	8270
D034	HEXACHLOROETHANE	3.0	0.5	ND	11/09/94	8270
D036	NITROBENZENE	2.0	1.0	ND	11/09/94	8270
D038	PYRIDINE	5.0	2.5	ND	11/09/94	8270
TCLP PESTICIDES						
D020	CHLORDANE	0.03	0.01	ND	11/09/94	8080
D012	ENDRIN	0.03	0.01	ND	11/09/94	8080
D031	HEPTACHLOR	0.008	0.005	ND	11/09/94	8080
	-EPOXIDE	0.008	0.005	ND	11/09/94	8080
D013	LINDANE	0.4	0.1	ND	11/09/94	8080
D014	METHOXYCHLOR	10	1.0	ND	11/09/94	8080
D015	TOXAPHENE	0.5	0.1	ND	11/09/94	8080
TCLP HERBICIDES						
D016	2,4-D	10.0	0.5	ND	11/09/94	8150
D017	2,4,5-TP (SILVEX)	1.0	0.5	ND	11/09/94	8150
TCLP METALS						
D004	ARSENIC	5.0	0.5	ND	11/09/94	6010
D005	BARIUM	100	5.0	ND	11/09/94	6010
D006	**CADMIUM**	**1.0**	**0.1**	**0.118**	**11/09/94**	**6010**
D007	CHROMIUM	5.0	0.5	ND	11/09/94	6010
D008	LEAD	5.0	0.5	ND	11/09/94	6010
D009	MERCURY	0.2	0.01	ND	11/09/94	7470
D010	SELENIUM	1.0	0.1	ND	11/09/94	6010
D011	SILVER	5.0	0.5	ND	11/09/94	6010

Performed in accordance with 40 CFR 261(06/29/90)

OPERATIONS LABORATORY SERVICES CONSULTATION

ANALYTICAL INDUSTRIAL RESEARCH LABORATORY

4295 Cromwell Road, Suite 614
Chattanooga, Tennessee 37421-2177
(615) 894-8102

2 4 1260

LAB. NO.:941118-18533

CUSTOMER: 1237
SIGNAL ENVIRONMENTAL SERVICES
P.O. BOX 4270
CHATTANOOGA, TN 37405

DATE RECD. : 11/04/94
SAMPLE DATE: 11/03/94

ATTENTION:MICHAEL MATTHEWS
(615) 265-9551 FAX:

DATE REQUESTED :
CUST P.O.: DEM-1

SAMPLE :SAAD NASHVILLE SAAD SITE
:7 SOILS TO COMPOSITE Ref. # 941104-17762 ASAP

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ANALYSIS

ANALYSIS	Result	M.D.L.	Methods	Date	Initial
TCLP TOTAL PETROLEUM HYDROCARBONS					
DRO	1.6 mg/L	0.1	DRO	11-28-94	LG

RECEIVED NOV 2 9 1994

Notes:

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

We hereby certify that the analytical procedures employed are those approved by the Environmental Protection Agency or other applicable methods for these analyses.

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES

By Ray B. Patterson

OPERATIONS LABORATORY SERVICES CONSULTATION

ANALYTICAL INDUSTRIAL RESEARCH LABORATORY

4295 Cromwell Road, Suite 614
Chattanooga, Tennessee 37421-2177
(615) 894-8102

2 4 1261

LAB. NO.:941118-18503

CUSTOMER: 1237
SIGNAL ENVIRONMENTAL SERVICES
P.O. BOX 4270
CHATTANOOGA, TN 37405

DATE RECD. : 11/18/94
SAMPLE DATE: 11/17/94

ATTENTION:MICHAEL MATTHEWS
(615) 265-9551 FAX:

DATE REQUESTED : 11/21/94
CUST P.O.: DEM-1

SAMPLE :SAAD TROUSDALE SAAD SITE
:7 SOILS TO COMPOSITE

ASAP

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ANALYSIS			M.D.L.	Methods	Date	Initial
TCLP TOXICITY CHARACTERISTIC CONSTITUENTS: (SEE ATTACHED)						
TCLP TOTAL PETROLEUM HYDROCARBONS						
DRO	1.0	mg/L	0.1	DRO	11-21-94	LG

RECEIVED
NOV 23 1994

Notes:TENNESSEE NON REGULATED SOIL

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

We hereby certify that the analytical procedures employed are those approved by the Environmental Protection Agency or other applicable methods for these analyses.

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES

By Ray R. Patterson

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., STE 611
CHATTANOOGA, TN 37421-2177

AIRL SAMPLE I.D. 18503 **TCLP METHOD 1311**
SIGNAL ENVIRONMENTAL SERVICES **SAMPLE DATE: 11/17/94**
SAMPLE: 7 SOIL COMPOSITE

EPA HW NUMBER	CONSTITUENT	REGULATORY LEVEL(mg/L)	MDL (mg/L)	RESULT (mg/L)	DATE ANALYZED	METHOD (SW-846)
TCLP VOLATILES (ZHS)						
D018	BENZENE	0.5	0.1	ND	11/21/94	8240
D019	CARBON TETRACHLORIDE	0.5	0.1	ND	11/21/94	8240
D021	CHLOROBENZENE	100.	10.	ND	11/21/94	8240
D022	CHLOROFORM	6.0	1.0	ND	11/21/94	8240
D027	1,4-DICHLOROBENZENE	7.5	1.0	ND	11/21/94	8240
D028	1,2-DICHLOROETHANE	0.5	0.1	ND	11/21/94	8240
D029	1,1-DICHLOROETHYLENE	0.7	0.1	ND	11/21/94	8240
D035	METHYL ETHYL KETONE	200.	20	ND	11/21/94	8240
D039	TETRACHLOROETHYLENE	0.7	0.1	ND	11/21/94	8240
D040	TRICHLOROETHYLENE	0.5	0.1	3.8	11/21/94	8240
D043	VINYL CHLORIDE	0.2	0.1	ND	11/21/94	8240
TCLP SEMIVOLATILES						
TCLP ACIDS						
D023	o-CRESOL	200	1.0	ND	11/21/94	8270
D024	m-CRESOL	200	1.0	ND	11/21/94	8270
D025	p-CRESOL	200	1.0	ND	11/21/94	8270
D026	CRESOLS (TOTAL)	200	1.0	ND	11/21/94	8270
D037	PENTACHLOROPHENOL	100	1.0	ND	11/21/94	8270
D041	2,4,5-TRICHLOROPHENOL	400	1.0	ND	11/21/94	8270
D042	2,4,6-TRICHLOROPHENOL	2.0	1.0	ND	11/21/94	8270
TCLP BASE/NEUTRALS						
D030	2,4-DINITROTOLUENE	0.13	0.05	ND	11/21/94	8270
D032	HEXACHLOROBENZENE	0.13	0.05	ND	11/21/94	8270
D033	HEXACHLORO-1,3-BUTADIENE	0.5	0.1	ND	11/21/94	8270
D034	HEXACHLOROETHANE	3.0	0.5	ND	11/21/94	8270
D036	NITROBENZENE	2.0	1.0	ND	11/21/94	8270
D038	PYRIDINE	5.0	2.5	ND	11/21/94	8270
TCLP PESTICIDES						
D020	CHLORDANE	0.03	0.01	ND	11/21/94	8080
D012	ENDRIN	0.03	0.01	ND	11/21/94	8080
D031	HEPTACHLOR	0.008	0.005	ND	11/21/94	8080
	-EPOXIDE	0.008	0.005	ND	11/21/94	8080
D013	LINDANE	0.4	0.1	ND	11/21/94	8080
D014	METHOXYCHLOR	10	1.0	ND	11/21/94	8080
D015	TOXAPHENE	0.5	0.1	ND	11/21/94	8080
TCLP HERBICIDES						
D016	2,4-D	10.0	0.5	ND	11/21/94	8150
D017	2,4,5-TP (SILVEX)	1.0	0.5	ND	11/21/94	8150
TCLP METALS						
D004	ARSENIC	5.0	0.5	ND	11/21/94	6010
D005	BARIUM	100	5.0	ND	11/21/94	6010
D006	CADMIUM	1.0	0.1	ND	11/21/94	6010
D007	CHROMIUM	5.0	0.5	ND	11/21/94	6010
D008	LEAD	5.0	0.5	ND	11/21/94	6010
D009	MERCURY	0.2	0.01	ND	11/21/94	7470
D010	SELENIUM	1.0	0.1	ND	11/21/94	6010
D011	SILVER	5.0	0.5	ND	11/21/94	6010

Performed in accordance with 40 CFR 261(06/29/90)

OPERATIONS LABORATORY SERVICES CONSULTATION

ANALYTICAL INDUSTRIAL RESEARCH LABORATORY
4295 Cromwell Road, Suite 614
Chattanooga, Tennessee 37421-2177
(615) 894-8102

2 4 1263

LAB. NO.:941118-18504

CUSTOMER: 1237
SIGNAL ENVIRONMENTAL SERVICES
P.O. BOX 4270
CHATTANOOGA, TN 37405

DATE RECD. : 11/18/94
SAMPLE DATE: 11/17/94

ATTENTION:MICHAEL MATTHEWS
(615) 265-9551 FAX:

DATE REQUESTED: 11/21/94
CUST P.O.: DEM-1

SAMPLE :SAAD TROUSDALE SAAD SITE
:SAD11/17016 SOIL

ASAP

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ANALYSIS

TCLP TOXICITY CHARACTERISTIC CONSTITUENTS:
(SEE ATTACHED)

RECEIVED
NOV 23 1994

Notes: TENNESSEE NON REGULATED SOIL

ALL RESULTS RECORDED IN PPM OR MG/L UNLESS OTHERWISE STATED.

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

We hereby certify that the analytical procedures employed are those approved by the Environmental Protection Agency or other applicable methods for these analyses.

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES

By Ray R. Patterson

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., STE 611
CHATTANOOGA, TN 37421-2177

AIRL SAMPLE I.D. 18504 **TCLP METHOD 1311**
SIGNAL ENVIRONMENTAL SERVICES **SAMPLE DATE: 11/17/94**
SAMPLE: SAD11/17016

EPA HW NUMBER	CONSTITUENT	REGULATORY LEVEL(mg/L)	MDL (mg/L)	RESULT (mg/L)	DATE ANALYZED	METHOD (SW-846)
TCLP VOLATILES (ZHS)						
D018	BENZENE	0.5	0.1	ND	11/21/94	8240
D019	CARBON TETRACHLORIDE	0.5	0.1	ND	11/21/94	8240
D021	CHLOROBENZENE	100.	10.	ND	11/21/94	8240
D022	CHLOROFORM	6.0	1.0	ND	11/21/94	8240
D027	1,4-DICHLOROBENZENE	7.5	1.0	ND	11/21/94	8240
D028	1,2-DICHLOROETHANE	0.5	0.1	ND	11/21/94	8240
D029	1,1-DICHLOROETHYLENE	0.7	0.1	ND	11/21/94	8240
D035	METHYL ETHYL KETONE	200.	20	ND	11/21/94	8240
D039	TETRACHLOROETHYLENE	0.7	0.1	ND	11/21/94	8240
D040	TRICHLOROETHYLENE	0.5	0.1	ND	11/21/94	8240
D043	VINYL CHLORIDE	0.2	0.1	ND	11/21/94	8240
TCLP SEMIVOLATILES						
TCLP ACIDS						
D023	o-CRESOL	200	1.0	ND	11/21/94	8270
D024	m-CRESOL	200	1.0	ND	11/21/94	8270
D025	p-CRESOL	200	1.0	ND	11/21/94	8270
D026	CRESOLS (TOTAL)	200	1.0	ND	11/21/94	8270
D037	PENTACHLOROPHENOL	100	1.0	ND	11/21/94	8270
D041	2,4,5-TRICHLOROPHENOL	400	1.0	ND	11/21/94	8270
D042	2,4,6-TRICHLOROPHENOL	2.0	1.0	ND	11/21/94	8270
TCLP BASE/NEUTRALS						
D030	2,4-DINITROTOLUENE	0.13	0.05	ND	11/21/94	8270
D032	HEXACHLOROBENZENE	0.13	0.05	ND	11/21/94	8270
D033	HEXACHLORO-1,3-BUTADIENE	0.5	0.1	ND	11/21/94	8270
D034	HEXACHLOROETHANE	3.0	0.5	ND	11/21/94	8270
D036	NITROBENZENE	2.0	1.0	ND	11/21/94	8270
D038	PYRIDINE	5.0	2.5	ND	11/21/94	8270
TCLP PESTICIDES						
D020	CHLORDANE	0.03	0.01	ND	11/21/94	8080
D012	ENDRIN	0.03	0.01	ND	11/21/94	8080
D031	HEPTACHLOR	0.008	0.005	ND	11/21/94	8080
	-EPOXIDE	0.008	0.005	ND	11/21/94	8080
D013	LINDANE	0.4	0.1	ND	11/21/94	8080
D014	METHOXYCHLOR	10	1.0	ND	11/21/94	8080
D015	TOXAPHENE	0.5	0.1	ND	11/21/94	8080
TCLP HERBICIDES						
D016	2,4-D	10.0	0.5	ND	11/21/94	8150
D017	2,4,5-TP (SILVEX)	1.0	0.5	ND	11/21/94	8150
TCLP METALS						
D004	ARSENIC	5.0	0.5	ND	11/21/94	6010
D005	BARIUM	100	5.0	ND	11/21/94	6010
D006	CADMIUM	1.0	0.1	ND	11/21/94	6010
D007	CHROMIUM	5.0	0.5	ND	11/21/94	6010
D008	LEAD	5.0	0.5	ND	11/21/94	6010
D009	MERCURY	0.2	0.01	ND	11/21/94	7470
D010	SELENIUM	1.0	0.1	ND	11/21/94	6010
D011	SILVER	5.0	0.5	ND	11/21/94	6010

Performed in accordance with 40 CFR 261(06/29/90)

OPERATIONS LABORATORY SERVICES CONSULTATION

ANALYTICAL INDUSTRIAL RESEARCH LABORATORY

4295 Cromwell Road, Suite 614
Chattanooga, Tennessee 37421-2177
(615) 894-8102

2 4 1265

LAB. NO.:941118-18505

CUSTOMER: 1237
SIGNAL ENVIRONMENTAL SERVICES
P.O. BOX 4270
CHATTANOOGA, TN 37405

DATE RECD. : 11/18/94
SAMPLE DATE: 11/17/94

ATTENTION:MICHAEL MATTHEWS
(615) 265-9551 FAX:

DATE REQUESTED: 11/25/94
CUST P.O.: DEM-1

SAMPLE :SAAD TROUSDALE SAAD SITE
:7 SOILS TO COMPOSITE

ASAP

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ANALYSIS

TCLP TOXICITY CHARACTERISTIC CONSTITUENTS:
(SEE ATTACHED)

RECEIVED

Notes: TENNESSEE NON REGULATED SOIL

ALL RESULTS RECORDED IN PPM OR MG/L UNLESS OTHERWISE STATED.

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

We hereby certify that the analytical procedures employed are those approved by the Environmental Protection Agency or other applicable methods for these analyses.

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES

By Roy B. Patterson

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., STE 611
CHATTANOOGA, TN 37421-2177

AIRL SAMPLE I.D. 18505 **TCLP METHOD 1311**
SIGNAL ENVIRONMENTAL SERVICES **SAMPLE DATE: 11/17/94**
SAMPLE: 7 SOIL COMPOSITE

EPA HW NUMBER	CONSTITUENT	REGULATORY LEVEL(mg/L)	MDL (mg/L)	RESULT (mg/L)	DATE ANALYZED	METHOD (SW-846)
TCLP VOLATILES (ZHS)						
D018	BENZENE	0.5	0.1	ND	11/23/94	8240
D019	CARBON TETRACHLORIDE	0.5	0.1	ND	11/23/94	8240
D021	CHLOROBENZENE	100.	10.	ND	11/23/94	8240
D022	CHLOROFORM	6.0	1.0	ND	11/23/94	8240
D027	1,4-DICHLOROBENZENE	7.5	1.0	ND	11/23/94	8240
D028	1,2-DICHLOROETHANE	0.5	0.1	ND	11/23/94	8240
D029	1,1-DICHLOROETHYLENE	0.7	0.1	ND	11/23/94	8240
D035	METHYL ETHYL KETONE	200.	20	ND	11/23/94	8240
D039	TETRACHLOROETHYLENE	0.7	0.1	0.16	11/23/94	8240
D040	TRICHLOROETHYLENE	0.5	0.1	2.8	11/23/94	8240
D043	VINYL CHLORIDE	0.2	0.1	ND	11/23/94	8240
TCLP SEMIVOLATILES						
TCLP ACIDS						
D023	o-CRESOL	200	1.0	ND	11/23/94	8270
D024	m-CRESOL	200	1.0	ND	11/23/94	8270
D025	p-CRESOL	200	1.0	1.5	11/23/94	8270
D026	CRESOLS (TOTAL)	200	1.0	1.5	11/23/94	8270
D037	PENTACHLOROPHENOL	100	1.0	ND	11/23/94	8270
D041	2,4,5-TRICHLOROPHENOL	400	1.0	ND	11/23/94	8270
D042	2,4,6-TRICHLOROPHENOL	2.0	1.0	ND	11/23/94	8270
TCLP BASE/NEUTRALS						
D030	2,4-DINITROTOLUENE	0.13	0.05	ND	11/23/94	8270
D032	HEXACHLOROBENZENE	0.13	0.05	ND	11/23/94	8270
D033	HEXACHLORO-1,3-BUTADIENE	0.5	0.1	ND	11/23/94	8270
D034	HEXACHLOROETHANE	3.0	0.5	ND	11/23/94	8270
D036	NITROBENZENE	2.0	1.0	ND	11/23/94	8270
D038	PYRIDINE	5.0	2.5	ND	11/23/94	8270
TCLP PESTICIDES						
D020	CHLORDANE	0.03	0.01	ND	11/23/94	8080
D012	ENDRIN	0.03	0.01	ND	11/23/94	8080
D031	HEPTACHLOR	0.008	0.005	ND	11/23/94	8080
	-EPOXIDE	0.008	0.005	ND	11/23/94	8080
D013	LINDANE	0.4	0.1	ND	11/23/94	8080
D014	METHOXYCHLOR	10	1.0	ND	11/23/94	8080
D015	TOXAPHENE	0.5	0.1	ND	11/23/94	8080
TCLP HERBICIDES						
D016	2,4-D	10.0	0.5	ND	11/23/94	8150
D017	2,4,5-TP (SILVEX)	1.0	0.5	ND	11/23/94	8150
TCLP METALS						
D004	ARSENIC	5.0	0.5	ND	11/23/94	6010
D005	BARIUM	100	5.0	ND	11/23/94	6010
D006	CADMIUM	1.0	0.1	ND	11/23/94	6010
D007	CHROMIUM	5.0	0.5	ND	11/23/94	6010
D008	LEAD	5.0	0.5	ND	11/23/94	6010
D009	MERCURY	0.2	0.01	ND	11/22/94	7470
D010	SELENIUM	1.0	0.1	ND	11/23/94	6010
D011	SILVER	5.0	0.5	ND	11/23/94	6010

Performed in accordance with 40 CFR 261(06/29/90)

OPERATIONS LABORATORY SERVICES CONSULTATION

ANALYTICAL INDUSTRIAL RESEARCH LABORATORY

4295 Cromwell Road, Suite 614
Chattanooga, Tennessee 37421-2177
(615) 894-8102

2 4 1267

LAB. NO.: 941118-18506

CUSTOMER: 1237
SIGNAL ENVIRONMENTAL SERVICES
P.O. BOX 4270
CHATTANOOGA, TN 37405

DATE RECD. : 11/18/94
SAMPLE DATE: 11/17/94

ATTENTION: MICHAEL MATTHEWS
(615) 265-9551 FAX:

DATE REQUESTED: 11/25/94
CUST P.O.: DEM-1

SAMPLE :SAAD TROUSDALE SAAD SITE
:5 SOILS TO COMPOSITE

ASAP

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ANALYSIS

TCLP TOXICITY CHARACTERISTIC CONSTITUENTS:
(SEE ATTACHED)

RECEIVED NOV 2 _ 1994

Stockpile

Notes: TENNESSEE NON REGULATED SOIL

ALL RESULTS RECORDED IN PPM OR MG/L UNLESS OTHERWISE STATED.

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

We hereby certify that the analytical procedures employed are those approved by the Environmental Protection Agency or other applicable methods for these analyses.

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES

By Ray R. Patterson

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., STE 611
CHATTANOOGA, TN 37421-2177

AIRL SAMPLE I.D. 18506 **TCLP METHOD 1311**
SIGNAL ENVIRONMENTAL SERVICES **SAMPLE DATE: 11/17/94**
SAMPLE: 5 SOIL COMPOSITE

EPA HW NUMBER	CONSTITUENT	REGULATORY LEVEL(mg/L)	MDL (mg/L)	RESULT (mg/L)	DATE ANALYZED	METHOD (SW-846)
TCLP VOLATILES (ZHS)						
D018	BENZENE	0.5	0.1	ND	11/23/94	8240
D019	CARBON TETRACHLORIDE	0.5	0.1	ND	11/23/94	8240
D021	CHLOROBENZENE	100.	10.	ND	11/23/94	8240
D022	CHLOROFORM	6.0	1.0	ND	11/23/94	8240
D027	1,4-DICHLOROBENZENE	7.5	1.0	ND	11/23/94	8240
D028	1,2-DICHLOROETHANE	0.5	0.1	ND	11/23/94	8240
D029	1,1-DICHLOROETHYLENE	0.7	0.1	ND	11/23/94	8240
D035	METHYL ETHYL KETONE	200.	20	ND	11/23/94	8240
D039	TETRACHLOROETHYLENE	0.7	0.1	ND	11/23/94	8240
D040	**TRICHLOROETHYLENE**	**0.5**	**0.1**	**0.81**	**11/23/94**	**8240**
D043	VINYL CHLORIDE	0.2	0.1	ND	11/23/94	8240
TCLP SEMIVOLATILES						
TCLP ACIDS						
D023	o-CRESOL	200	1.0	ND	11/23/94	8270
D024	m-CRESOL	200	1.0	ND	11/23/94	8270
D025	p-CRESOL	200	1.0	1.5	11/23/94	8270
D026	CRESOLS (TOTAL)	200	1.0	1.5	11/23/94	8270
D037	PENTACHLOROPHENOL	100	1.0	ND	11/23/94	8270
D041	2,4,5-TRICHLOROPHENOL	400	1.0	ND	11/23/94	8270
D042	2,4,6-TRICHLOROPHENOL	2.0	1.0	ND	11/23/94	8270
TCLP BASE/NEUTRALS						
D030	2,4-DINITROTOLUENE	0.13	0.05	ND	11/23/94	8270
D032	HEXACHLOROBENZENE	0.13	0.05	ND	11/23/94	8270
D033	HEXACHLORO-1,3-BUTADIENE	0.5	0.1	ND	11/23/94	8270
D034	HEXACHLOROETHANE	3.0	0.5	ND	11/23/94	8270
D036	NITROBENZENE	2.0	1.0	ND	11/23/94	8270
D038	PYRIDINE	5.0	2.5	ND	11/23/94	8270
TCLP PESTICIDES						
D020	CHLORDANE	0.03	0.01	ND	11/23/94	8080
D012	ENDRIN	0.03	0.01	ND	11/23/94	8080
D031	HEPTACHLOR	0.008	0.005	ND	11/23/94	8080
	-EPOXIDE	0.008	0.005	ND	11/23/94	8080
D013	LINDANE	0.4	0.1	ND	11/23/94	8080
D014	METHOXYCHLOR	10	1.0	ND	11/23/94	8080
D015	TOXAPHENE	0.5	0.1	ND	11/23/94	8080
TCLP HERBICIDES						
D016	2,4-D	10.0	0.5	ND	11/23/94	8150
D017	2,4,5-TP (SILVEX)	1.0	0.5	ND	11/23/94	8150
TCLP METALS						
D004	ARSENIC	5.0	0.5	ND	11/23/94	6010
D005	BARIUM	100	5.0	ND	11/23/94	6010
D006	CADMIUM	1.0	0.1	ND	11/23/94	6010
D007	CHROMIUM	5.0	0.5	ND	11/23/94	6010
D008	LEAD	5.0	0.5	ND	11/23/94	6010
D009	MERCURY	0.2	0.01	ND	11/22/94	7470
D010	SELENIUM	1.0	0.1	ND	11/23/94	6010
D011	SILVER	5.0	0.5	ND	11/23/94	6010

Performed in accordance with 40 CFR 261(06/29/90)

OPERATIONS LABORATORY SERVICES CONSULTATION

ANALYTICAL INDUSTRIAL RESEARCH LABORATORY

4295 Cromwell Road, Suite 614
Chattanooga, Tennessee 37421-2177
(615) 894-8102

2 4 1269

LAB. NO.:941118-18507

CUSTOMER: 1237
SIGNAL ENVIRONMENTAL SERVICES
P.O. BOX 4270
CHATTANOOGA, TN 37405

DATE RECD. : 11/18/94
SAMPLE DATE: 11/17/94

ATTENTION:MICHAEL MATTHEWS
(615) 265-9551 FAX:

DATE REQUESTED: 11/25/94
CUST P.O.: DEM-1

SAMPLE :SAAD TROUSDALE SAAD SITE
:7 SOILS TO COMPOSITE

ASAP

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ANALYSIS

TCLP TOXICITY CHARACTERISTIC CONSTITUENTS:
(SEE ATTACHED)

RECEIVED NOV 2 8 1994

Notes: TENNESSEE NON REGULATED SOIL

ALL RESULTS RECORDED IN PPM OR MG/L UNLESS OTHERWISE STATED.

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

We hereby certify that the analytical procedures employed are those approved by the Environmental Protection Agency or other applicable methods for these analyses.

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES

By Roy R. Patterson

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., STE 611
CHATTANOOGA, TN 37421-2177

AIRL SAMPLE I.D. 18507 **TCLP METHOD 1311**
SIGNAL ENVIRONMENTAL SERVICES **SAMPLE DATE: 11/17/94**
SAMPLE: 7 SOIL COMPOSITE

EPA HW NUMBER	CONSTITUENT	REGULATORY LEVEL(mg/L)	MDL (mg/L)	RESULT (mg/L)	DATE ANALYZED	METHOD (SW-846)
TCLP VOLATILES (ZHS)						
D018	BENZENE	0.5	0.1	ND	11/23/94	8240
D019	CARBON TETRACHLORIDE	0.5	0.1	ND	11/23/94	8240
D021	CHLOROBENZENE	100.	10.	ND	11/23/94	8240
D022	CHLOROFORM	6.0	1.0	ND	11/23/94	8240
D027	1,4-DICHLOROBENZENE	7.5	1.0	ND	11/23/94	8240
D028	1,2-DICHLOROETHANE	0.5	0.1	ND	11/23/94	8240
D029	1,1-DICHLOROETHYLENE	0.7	0.1	ND	11/23/94	8240
D035	METHYL ETHYL KETONE	200.	20	ND	11/23/94	8240
D039	TETRACHLOROETHYLENE	0.7	0.1	ND	11/23/94	8240
D040	**TRICHLOROETHYLENE**	**0.5**	**0.1**	**0.92**	**11/23/94**	**8240**
D043	VINYL CHLORIDE	0.2	0.1	ND	11/23/94	8240
TCLP SEMIVOLATILES						
TCLP ACIDS						
D023	o-CRESOL	200	1.0	ND	11/23/94	8270
D024	m-CRESOL	200	1.0	ND	11/23/94	8270
D025	p-CRESOL	200	1.0	ND	11/23/94	8270
D026	CRESOLS (TOTAL)	200	1.0	ND	11/23/94	8270
D037	PENTACHLOROPHENOL	100	1.0	ND	11/23/94	8270
D041	2,4,5-TRICHLOROPHENOL	400	1.0	ND	11/23/94	8270
D042	2,4,6-TRICHLOROPHENOL	2.0	1.0	ND	11/23/94	8270
TCLP BASE/NEUTRALS						
D030	2,4-DINITROTOLUENE	0.13	0.05	ND	11/23/94	8270
D032	HEXACHLOROBENZENE	0.13	0.05	ND	11/23/94	8270
D033	HEXACHLORO-1,3-BUTADIENE	0.5	0.1	ND	11/23/94	8270
D034	HEXACHLOROETHANE	3.0	0.5	ND	11/23/94	8270
D036	NITROBENZENE	2.0	1.0	ND	11/23/94	8270
D038	PYRIDINE	5.0	2.5	ND	11/23/94	8270
TCLP PESTICIDES						
D020	CHLORDANE	0.03	0.01	ND	11/23/94	8080
D012	ENDRIN	0.03	0.01	ND	11/23/94	8080
D031	HEPTACHLOR	0.008	0.005	ND	11/23/94	8080
	-EPOXIDE	0.008	0.005	ND	11/23/94	8080
D013	LINDANE	0.4	0.1	ND	11/23/94	8080
D014	METHOXYCHLOR	10	1.0	ND	11/23/94	8080
D015	TOXAPHENE	0.5	0.1	ND	11/23/94	8080
TCLP HERBICIDES						
D016	2,4-D	10.0	0.5	ND	11/23/94	8150
D017	2,4,5-TP (SILVEX)	1.0	0.5	ND	11/23/94	8150
TCLP METALS						
D004	ARSENIC	5.0	0.5	ND	11/23/94	6010
D005	BARIUM	100	5.0	ND	11/23/94	6010
D006	CADMIUM	1.0	0.1	ND	11/23/94	6010
D007	CHROMIUM	5.0	0.5	ND	11/23/94	6010
D008	LEAD	5.0	0.5	ND	11/23/94	6010
D009	MERCURY	0.2	0.01	ND	11/22/94	7470
D010	SELENIUM	1.0	0.1	ND	11/23/94	6010
D011	SILVER	5.0	0.5	ND	11/23/94	6010

Performed in accordance with 40 CFR 261(06/29/90)

CONSULTATION

ANALYTICAL INDUSTRIAL RESEARCH LABORATO
4295 Cromwell Road, Suite 614
Chattanooga, Tennessee 37421-2177
(615) 894-8102

2 4 1271

LAB. NO.:941130-190

CUSTOMER: 1237
SIGNAL ENVIRONMENTAL SERVICES
P.O. BOX 4270
CHATTANOOGA, TN 37405

DATE RECD. : 11/30/94
SAMPLE DATE: 11/29/94

ATTENTION:
(615) 265-9551 FAX:

DATE REQUESTED : 12/02/9
CUST P.O.:

SAMPLE :SAAD SITE
:7 SOIL SAMPLES TO COMPOSITE R001-R007 RUSH

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ANALYSIS

		M.D.L.	Methods	Date	Init
PCB	<1.0 ppm	1.0	8080	12-02-94	MW

TCLP Volatiles: See Attached

Notes:TENNESSEE SOIL - NON REGULATED

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

We hereby certify that the analytical procedures employed are those approved by the Environmental Protection Agency or other applicable methods for these analyses.

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES

By Ray B Patterson

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., STE 611
CHATTANOOGA, TN 37421-2177

AIRL SAMPLE I.D. 19068 **TCLP METHOD 1311**
SIGNAL ENVIRONMENTAL SERVICES **SAMPLE DATE: 11/29/94**
SAMPLE: 7 SOILS R001-R007

EPA HW NUMBER	CONSTITUENT	REGULATORY LEVEL(mg/L)	MDL (mg/L)	RESULT (mg/L)	DATE ANALYZED	METHOD (SW-846)
TCLP VOLATILES (ZHS)						
D018	BENZENE	0.5	0.1	ND	12/01/94	8240
D019	CARBON TETRACHLORIDE	0.5	0.1	ND	12/01/94	8240
D021	CHLOROBENZENE	100.	10.	ND	12/01/94	8240
D022	CHLOROFORM	6.0	1.0	ND	12/01/94	8240
D027	1,4-DICHLOROBENZENE	7.5	1.0	ND	12/01/94	8240
D028	1,2-DICHLOROETHANE	0.5	0.1	ND	12/01/94	8240
D029	1,1-DICHLOROETHYLENE	0.7	0.1	ND	12/01/94	8240
D035	METHYL ETHYL KETONE	200.	20	ND	12/01/94	8240
D039	TETRACHLOROETHYLENE	0.7	0.1	0.2	12/01/94	8240
D040	TRICHLOROETHYLENE	0.5	0.1	3.0	12/01/94	8240
D043	VINYL CHLORIDE	0.2	0.1	ND	12/01/94	8240

Performed in accordance with 40 CFR 261(06/29/90)

LABORATORY SERVICES CONSULTATION

ANALYTICAL INDUSTRIAL RESEARCH LABORATO
4295 Cromwell Road, Suite 614
Chattanooga, Tennessee 37421-2177 2 4 1273
(615) 894-8102

LAB. NO.:941130-1906

CUSTOMER: 1237
SIGNAL ENVIRONMENTAL SERVICES
P.O. BOX 4270
CHATTANOOGA, TN 37405

DATE RECD. : 11/30/94
SAMPLE DATE: 11/29/94

ATTENTION:
(615) 265-9551 FAX:

DATE REQUESTED: 12/02/9
CUST P.O.: DEM-1

SAMPLE :SAAD SITE
:7 SOIL SAMPLES TO COMPOSITE R015-R021 RUSH

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ANALYSIS

TCLP Volatiles: See Attached

Notes: TENNESSEE SOIL - NON REGULATED

ALL RESULTS RECORDED IN PPM OR MG/L UNLESS OTHERWISE STATED.

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

We hereby certify that the analytical procedures employed are those approved by the Environmental Protection Agency or other applicable methods for these analyses.

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES

By [signature]

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., STE 611
CHATTANOOGA, TN 37421-2177

AIRL SAMPLE I.D. 19069 **TCLP METHOD 1311**
SIGNAL ENVIRONMENTAL SERVICES **SAMPLE DATE: 11/29/94**
SAMPLE: 7 SOILS R015-R021

EPA HW NUMBER	CONSTITUENT	REGULATORY LEVEL(mg/L)	MDL (mg/L)	RESULT (mg/L)	DATE ANALYZED	METHOD (SW-846)
TCLP VOLATILES (ZHS)						
D018	BENZENE	0.5	0.1	ND	12/01/94	8240
D019	CARBON TETRACHLORIDE	0.5	0.1	ND	12/01/94	8240
D021	CHLOROBENZENE	100.	10.	ND	12/01/94	8240
D022	CHLOROFORM	6.0	1.0	ND	12/01/94	8240
D027	1,4-DICHLOROBENZENE	7.5	1.0	ND	12/01/94	8240
D028	1,2-DICHLOROETHANE	0.5	0.1	ND	12/01/94	8240
D029	1,1-DICHLOROETHYLENE	0.7	0.1	ND	12/01/94	8240
D035	METHYL ETHYL KETONE	200.	20	ND	12/01/94	8240
D039	TETRACHLOROETHYLENE	0.7	0.1	ND	12/01/94	8240
D040	TRICHLOROETHYLENE	0.5	0.1	0.3	12/01/94	8240
D043	VINYL CHLORIDE	0.2	0.1	ND	12/01/94	8240

Performed in accordance with 40 CFR 261(08/29/90)

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

2 4 1275

ANALYTICAL REPORT

SIGNAL ENVIRONMENTAL 6190
ATTN. GREG VEAL
900 MANUFACTURES DRIVE
CHATTANOOGA, TN 37405

Lab Number: 94-A063854

Sample ID: R001-R007 COMPOSITE

Date Collected: 11/29/94

Project: SAAD

Time Collected: 18:00

Project Name:

Date Received: 11/30/94

Sampler: GREG VEAL

Time Received: 11:00

State Certification:

Sample Type: Solid waste

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
ero Headspace Extraction	COMPLETED				12/ 1/94	1311
Benzene	< 2.0	mg/l	0.5	94	12/ 2/94	8240
Carbon tetrachloride	< 2.0	mg/l	0.5	96	12/ 2/94	8240
Chlorobenzene	< 2.0	mg/l	100	98	12/ 2/94	8240
Chloroform	< 2.0	mg/l	6.0	100	12/ 2/94	8240
1,2-Dichloroethane	< 2.0	mg/l	0.5	100	12/ 2/94	8240
1,1-Dichloroethene	< 2.0	mg/l	0.7	94	12/ 2/94	8240
Methylethylketone	< 20.0	mg/l	200	104	12/ 2/94	8240
Tetrachloroethene	< 2.0	mg/l	0.7	100	12/ 2/94	8240
Trichloroethene	22.3	mg/l	0.5	86	12/ 2/94	8240
Vinyl Chloride	< 2.0	mg/l	0.2	74	12/ 2/94	8240

TCLP preparation follows method 1311 SW-846 as revised November 24, 1992 (57 CFR 55114).

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	104.	76 - 122
VOA Surrogate, Toluene d8	93.0	87 - 113

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

2 4 1276

ANALYTICAL REPORT

SIGNAL ENVIRONMENTAL 6190
ATTN. GREG VEAL
900 MANUFACTURES DRIVE
CHATTANOOGA, TN 37405

Lab Number: 94-A063854

Sample ID: R001-R007 COMPOSITE

Date Collected: 11/29/94

Project: SAAD

Time Collected: 18:00

Project Name:

Date Received: 11/30/94

Sampler: GREG VEAL

Time Received: 11:00

State Certification:

Sample Type: Solid waste

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
VOA Surrogate, 4-Bromofluorobenzene	94.0	82 - 121

Report Approved by: T. J. Dudley

COPY 1

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

2 4 1277

ANALYTICAL REPORT

SIGNAL ENVIRONMENTAL 6190
ATTN. GREG VEAL
900 MANUFACTURES DRIVE
CHATTANOOGA, TN 37405

Lab Number: 94-A063855

Sample ID: R008-R014 COMPOSITE

Date Collected: 11/30/94

Project: SAAD

Time Collected: 8:12

Project Name:

Date Received: 11/30/94

Sampler: GREG VEAL

Time Received: 11:00

State Certification:

Sample Type: Solid waste

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
[illegible]o Headspace Extraction	COMPLETED				12/ 1/94	1311
[illegible]zene	< 0.2	mg/l	0.5	94	12/ 2/94	8240
Carbon tetrachloride	< 0.2	mg/l	0.5	92	12/ 2/94	8240
Chlorobenzene	< 0.2	mg/l	100	100	12/ 2/94	8240
Chloroform	< 0.2	mg/l	6.0	98	12/ 2/94	8240
1,2-Dichloroethane	< 0.2	mg/l	0.5	102	12/ 2/94	8240
1,1-Dichloroethene	< 0.2	mg/l	0.7	94	12/ 2/94	8240
Methylethylketone	< 2.0	mg/l	200	126	12/ 2/94	8240
Tetrachloroethene	0.3	mg/l	0.7	100	12/ 2/94	8240
Trichloroethene	5.7	mg/l	0.5	82	12/ 2/94	8240
Vinyl Chloride	< 0.2	mg/l	0.2	76	12/ 2/94	8240

TCLP preparation follows method 1311 SW-846 as revised November 24, 1992 (57 CFR 55114).

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	100.	76 - 122
VOA Surrogate, Toluene d8	102.	87 - 113

COPY 1

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

2 4 1273

ANALYTICAL REPORT

SIGNAL ENVIRONMENTAL 6190
ATTN. GREG VEAL
900 MANUFACTURES DRIVE
CHATTANOOGA, TN 37405

Lab Number: 94-A063855

Samole ID: R008-R014 COMPOSITE

Date Collected: 11/30/94

Project: SAAD

Time Collected: 8:12

Project Name:

Date Received: 11/30/94

Sampler: GREG VEAL

Time Received: 11:00

State Certification:

Sample Type: Solid waste

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
VOA Surrogate, 4-Bromofluorobenzene	102.	82 - 121

Report Approved by: T. J. Dudley

COPY 1

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

2 4 1279

ANALYTICAL REPORT

SIGNAL ENVIRONMENTAL 6190
ATTN. GREG VEAL
900 MANUFACTURES DRIVE
CHATTANOOGA, TN 37405

Lab Number: 94-A063856

Sample ID: R015-R021 COMPOSITE

Date Collected: 11/29/94

Project: SAAD

Time Collected: 17:20

Project Name:

Date Received: 11/30/94

Sampler: GREG VEAL

Time Received: 11:00

State Certification:

Sample Type: Solid waste

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Zero Headspace Extraction	COMPLETED				12/ 1/94	1311
Benzene	< 0.1	mg/l	0.5	94	12/ 2/94	8240
Carbon tetrachloride	< 0.1	mg/l	0.5	88	12/ 2/94	8240
Chlorobenzene	< 0.1	mg/l	100	120	12/ 2/94	8240
Chloroform	< 0.1	mg/l	6.0	96	12/ 2/94	8240
1,2-Dichloroethane	< 0.1	mg/l	0.5	104	12/ 2/94	8240
1,1-Dichloroethene	< 0.1	mg/l	0.7	90	12/ 2/94	8240
Methylethylketone	< 1.0	mg/l	200	110	12/ 2/94	8240
Tetrachloroethene	< 0.1	mg/l	0.7	100	12/ 2/94	8240
Trichloroethene	0.4	mg/l	0.5	126	12/ 2/94	8240
Vinyl Chloride	< 0.1	mg/l	0.2	94	12/ 2/94	8240

TCLP preparation follows method 1311 SW-846 as revised November 24, 1992 (57 CFR 55114).

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	104.	76 - 122
VOA Surrogate, Toluene d8	101.	87 - 113

ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

2 4 1200

ANALYTICAL REPORT

SIGNAL ENVIRONMENTAL 6190
ATTN. GREG VEAL
900 MANUFACTURES DRIVE
CHATTANOOGA, TN 37405

Lab Number: 94-A063856

Samole ID: R015-R021 COMPOSITE

Project: SAAD

Project Name:

Sampler: GREG VEAL

State Certification:

Date Collected: 11/29/94

Time Collected: 17:20

Date Received: 11/30/94

Time Received: 11:00

Sample Type: Solid waste

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
VOA Surrogate, 4-Bromofluorobenzene	98.0	82 - 121

Report Approved by: T. J. Dudley

COPY 1

ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

2 4 1201

ANALYTICAL REPORT

SIGNAL ENVIRONMENTAL 6190
ATTN. GREG VEAL
900 MANUFACTURES DRIVE
CHATTANOOGA, TN 37405

Lab Number: 94-A063857

Sample ID: R022-R028 COMPOSITE

Date Collected: 11/30/94

Project: SAAD

Time Collected: 8:35

Project Name:

Date Received: 11/30/94

Sampler: GREG VEAL

Time Received: 11:00

State Certification:

Sample Type: Solid waste

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Zero Headspace Extraction	COMPLETED				12/ 1/94	1311
Benzene	< 1.0	mg/l	0.5	98	12/ 2/94	8240
Carbon tetrachloride	< 1.0	mg/l	0.5	90	12/ 2/94	8240
Chlorobenzene	< 1.0	mg/l	100	102	12/ 2/94	8240
Chloroform	< 1.0	mg/l	6.0	100	12/ 2/94	8240
1,2-Dichloroethane	< 1.0	mg/l	0.5	106	12/ 2/94	8240
1,1-Dichloroethene	< 1.0	mg/l	0.7	96	12/ 2/94	8240
Methylethylketone	< 10.0	mg/l	200	120	12/ 2/94	8240
Tetrachloroethene	< 1.0	mg/l	0.7	98	12/ 2/94	8240
Trichloroethene	6.8	mg/l	0.5	100	12/ 2/94	8240
Vinyl Chloride	< 1.0	mg/l	0.2	84	12/ 2/94	8240

TCLP preparation follows method 1311 SW-846 as revised November 24, 1992 (57 CFR 55114).

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	105.	76 - 122
VOA Surrogate, Toluene d8	98.0	87 - 113

COPY 1

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

2 4 1282

ANALYTICAL REPORT

SIGNAL ENVIRONMENTAL 6190
ATTN. GREG VEAL
900 MANUFACTURES DRIVE
CHATTANOOGA, TN 37405

Lab Number: 94-A063857

Samole ID: R022-R028 COMPOSITE

Date Collected: 11/30/94

Project: SAAD

Time Collected: 8:35

Project Name:

Date Received: 11/30/94

Sampler: GREG VEAL

Time Received: 11:00

State Certification:

Sample Type: Solid waste

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
VOA Surrogate, 4-Bromofluorobenzene	96.0	82 - 121

Report Approved by: T. J. Bullock

COPY 1

300 12th Avenue South
Nashville, Tennessee 37203

ANALYTICAL REPORT

DEC 4 1993

SIGNAL ENVIRONMENTAL 6190
ATTN. GREG VEAL
900 MANUFACTURES DRIVE
CHATTANOOGA, TN 37405

Lab Number: 94-A063858

Sample ID: R0290-R035 COMPOSITE

Date Collected: 11/30/94

Project: SAAD

Time Collected: 8:55

Project Name:

Date Received: 11/30/94

Sampler: GREG VEAL

Time Received: 11:00

State Certification:

Sample Type: Solid waste

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Zero Headspace Extraction	COMPLETED				12/ 1/94	1311
Benzene	< 0.1	mg/l	0.5	96	12/ 2/94	8240
Carbon tetrachloride	< 0.1	mg/l	0.5	88	12/ 2/94	8240
Chlorobenzene	< 0.1	mg/l	100	98	12/ 2/94	8240
Chloroform	< 0.1	mg/l	6.0	102	12/ 2/94	8240
1,2-Dichloroethane	< 0.1	mg/l	0.5	104	12/ 2/94	8240
1,1-Dichloroethene	< 0.1	mg/l	0.7	96	12/ 2/94	8240
Methylethylketone	< 1.0	mg/l	200	102	12/ 2/94	8240
Tetrachloroethene	< 0.1	mg/l	0.7	116	12/ 2/94	8240
Trichloroethene	2.7	mg/l	0.5	114	12/ 2/94	8240
Vinyl Chloride	< 0.1	mg/l	0.2	90	12/ 2/94	8240

TCLP preparation follows method 1311 SW-846 as revised November 24, 1992 (57 CFR 55114).

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	110.	76 - 122
VOA Surrogate, Toluene d8	103.	87 - 113

COPY 1

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

2 4 1284

ANALYTICAL REPORT

SIGNAL ENVIRONMENTAL 6190
ATTN. GREG VEAL
900 MANUFACTURES DRIVE
CHATTANOOGA, TN 37405

Lab Number: 94-A063858

Sample ID: R0290-R035 COMPOSITE

Date Collected: 11/30/94

Project: SAAD

Time Collected: 8:55

Project Name:

Date Received: 11/30/94

Sampler: GREG VEAL

Time Received: 11:00

State Certification:

Sample Type: Solid waste

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
VOA Surrogate, 4-Bromofluorobenzene	114.	82 - 121

Report Approved by: T. J. Pulliam

COPY 1

APPENDIX 5

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES
4295 CROMWELL RD., SUITE 614
CHATTANOOGA, TN 37421-2177

Report To:
SIGNAL ENVIRONMENTAL
900 MANUFACTURERS RD
CHATT. TN 37405
615-265-9551

Invoice To:
SAME -
SAAD SITE

Chain of Custody Record

Page 1 of 1

PROJECT SITE	PO#
SAAD - NASHVILLE	DEM-1

SITE NAME: SAAD - DEM-1

COLLECTED BY (Signature): [signature]

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	ANALYSES: TCLP-*	TPH-DRO+GRO	PAH	PCBs	FLASHPOINT
SAD10/27001A			10-27-94	1	X	X	X	X	X
SAD10/27001B			10-27-94	1	XXXXXXXXXX				

PROJECT #

DATE REPORT DUE: ASAP

VERBAL/FAX/HARDCOPY

REMARKS	LAB ID NO. (for lab use only)
METHOD	
TCLP (FULL) 1311	
SEMI-VOLATILES 8270	
VOLATILES 8240	
NON-HALAGEN 8015 or 8240	
TPH - CALIF. METHOD	

REMARKS: Composite A+B / ANALYZE HALEN AS ABOVE / SAVE REMAINDER FOR FUTURE ANALYSIS

RELINQUISHED BY: [signature] DATE: 10-27-94 TIME: 1:15 pm

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
[signature]	10/27/94	1:15pm							GOOD

REMARKS:

ANY QUESTIONS CONTACT M. MATTHEWS. ONLY ONE ANALYSIS

RETURN SAMPLE SEALS TO SIGNAL

1225

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., SUITE 611
CHATTANOOGA, TN 37421-2177

Report To:
SIGNAL ENVIRONMENTAL
900 MANUFACTURES RD.
CHATT. TN 37405
615-265-9551

Invoice To:
SAME - SAAD

Chain of Custody Record

Page 1 of 3

PROJECT SITE	PO#
SAAD NASHVILLE	DEM-01
SITE NAME: SAAD SITE	
COLLECTED BY (Signature): Greg Wal	

DATE REPORT DUE: ASAP
VERBAL/FAX/HARDCOPY

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	ANALYSES: FULL TCLP	REMARKS	LAB ID NO. (for lab use only)
SAD 11/3002A		Soil	11-3/3:58	1	X	CONSOLIDATE 2A, 3A,	
SAD 11/3002B		Soil	11-3/3:59	1	HOLD 90 DAYS	4A 5A 6A, 7A & 8A	
SAD 11/3003A		Soil	11-3/4:02	1	X	FOR ONE ANALYSIS	
SAD 11/3003B		Soil	11-3/4:04	1	HOLD 90 DAYS		
SAD 11/3004A		Soil	11-3/4:05	1	X	HOLD ALL SAMPLES	
SAD 11/3004B		Soil	11-3/4:07	1	HOLD 90 DAYS	ENDING WITH B FOR 90 DAYS.	
SAD 11/3005A		Soil	11-3/4:09	1	X		
SAD 11/3005B		Soil	11-3/4:11	1	HOLD 90 DAYS	HOLD 9A, 10A, 11A, 12A	
SAD 11/3006A		Soil	11-3/4:13	1	X	FOR FUTURE CONSOLIDATION	

REMARKS: CALL MICHAEL MATTHEWS W/ QUESTIONS

RELINQUISHED BY: Greg Wal — DATE 11-4 — TIME 11:46

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Donna Adams	11/4/94	11:46									

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
C. Patterson	11-4-94	1257							

REMARKS:

RETURN CUSTODY SEALS

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., SUITE 611
CHATTANOOGA, TN 37421-2177

Report To:
SIGNAL ENVIRONMENTAL
900 MANUFACTURES RD
CHATT TN 37405
615-265-9551

Invoice To:
SAME

Chain of Custody Record

PROJECT SITE: SAAD NASHVILLE | PO#: DSM-1
SITE NAME: SAAD SITE
COLLECTED BY (Signature): Greg Val

PROJECT #:
DATE REPORT DUE: ASAP
VERBAL/FAX/HARDCOPY

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	ANALYSES: FULL TCLP			REMARKS	LAB ID NO. (for lab use only)
SAD 11/3006B		Soil	11-3 / 4:16	1	HOLD	90	DAYS		See other COC
SAD 11/3007A		Soil	11-3 / 4:16	1	X			Return custody seals	
SAD 11/3007B		Soil	11-3 / 4:19	1	HOLD	90	DAYS		
SAD 11/3008A		Soil	11-3 / 4:21	1	X				
SAD 11/3008B		Soil	11-3 / 4:25	1	HOLD	90	DAYS		
SAD 11/3009A		Soil	11-3 / 4:27	1	HOLD				
SAD 11/3009B		Soil	11-3 / 4:29	1	HOLD	90	DAYS		
SAD 11/3010A		Soil	11-3 / 4:30	1	HOLD				
SAD 11/3010B		Soil	11-3 / 4:32	1	HOLD	90	DAYS		

REMARKS

RELINQUISHED BY: Greg Val — DATE: 11-4-94 — TIME: 11:46

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Donna Adams	11/4/94	11:46									

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
[illegible]	11-4-94	12:57							

REMARKS:

2 4 1233

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., SUITE 611
CHATTANOOGA, TN 37421-2177

Report To:
SIGNAL ENVIRONMENTAL
900 MANUFACTURERS RD.
CHATT. TN 37405
615-265-9551

Invoice To:
SAME-

Chain of Custody Record

PROJECT SITE	PO#
SAAD NASHVILLE	DSM-1
SITE NAME: SAAS 5:75	
COLLECTED BY (Signature): Greg Vlad	

PROJECT #:
DATE REPORT DUE: ASAP
VERBAL/FAX/HARDCOPY

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	FULL TCLP *	ANALYSES	REMARKS	LAB ID NO. (for lab use only)
SAD 11/30 11A		Soil	11-3 / 4:35	1		HOLD		
SAD 11/30 11B		Soil	11-3 / 4:37	1		HOLD 90 DAYS	Return custody seals	See Other COC
SAD 11/30 12A		Soil	11-3 / 4:39	1		HOLD		
SAD 11/30 12B		Soil	11-3 / 4:41	1		HOLD 90 DAYS		
[illegible]								

REMARKS

RELINQUISHED BY: Greg Vlad — DATE: 11-4-94 — TIME: 11:46

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Donna Adams	11/4/94	11:46									

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
C. Patterson	11/4/94	12:57							

REMARKS:

2 4 1239

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., SUITE 611
CHATTANOOGA, TN 37421-2177

Report To:
Signal Environmental
P.O. Box 4270
Chatt. TN 37405

Invoice To:
Signal Environmental
P.O. Box 4270
Chatt. TN 37405
DEM-1

Chain of Custody Record

Page 1 of 1

PROJECT SITE: SAAD SITE
PO#: DEM-1
PROJECT #:
SITE NAME: SAAD Trousdale
DATE REPORT DUE: 11-21-94
COLLECTED BY (Signature): [signature]
VERBAL/(FAX)/HARDCOPY: Mike 265-9565

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	ANALYSES: Full TCLP	REMARKS	LAB ID NO. (for lab use only)
SAD11/17013A		Soil	11-17/2:39	1	X	Consolidate 13A, 14A 15A for one Analysis with 08A, 09A, 10A 11A 12A	
SAD11/17013B		Soil	11-17/2:39	1	Hold 90 Days		
SAD11/17014A		Soil	11-17/2:43	1	X		
SAD11/17014B		Soil	11-17/2:43	1	Hold 90 Days		
SAD11/17015A		Soil	11-17/2:50	1	X		
SAD11/17015B		Soil	11-17/2:50	1	Hold 90 Days	Return custody seals	
SAD11/17016		Concrete	11-17/2:35	1	X	Run by its self 1 sample	

REMARKS:

RELINQUISHED BY: [signature] DATE: 11-18 TIME: 11:20

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
J. USELTON	11/18/94	1120							good

REMARKS:

24 1290

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., SUITE 611
CHATTANOOGA, TN 37421-2177

Report To:
SIGNAL ENVIRONMENTAL
P.O. Box 4270
CHATT. TN 37405

Invoice To:
SAAD - DEM-1

Chain of Custody Record

PROJECT SITE: SAAD SITE | PO#: DEM-1
SITE NAME: SAAD TRANSDALE
COLLECTED BY (Signature): Greg Vad

PROJECT #:
DATE REPORT DUE: 11-25-94
VERBAL / FAX / HARDCOPY: mike 265-9565

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	ANALYSES: Full TCLP	REMARKS	LAB ID NO. (for lab use only)
SAD 11/17 025A		Soil	11-17/3:38	1	X	CONSOLIDATE 25A, 28A	
SAD 11/17 025B		Soil	11-17/3:38	1	HOLD FOR 90 DAYS	29A, 30A, 31A, 32A, 33A	
SAD 11/17 028A		Soil	11-17/3:47	1	X	FOR ONE ANALYSIS	
SAD 11/17 028B		Soil	11-17/3:47	1	HOLD 90 DAYS		
SAD 11/17 029A		Soil	11-17/3:51	1	X		
SAD 11/17 029B		Soil	11-17/3:51	1	HOLD 90 DAYS	RETURN CUSTODY SEALS	
SAD 11/17 030A		Soil	11-17/3:55	1	X		
SAD 11/17 030B		Soil	11-17/3:57	1	HOLD 90 DAYS		
SAD 11/17 031A		Soil	11-17/3:59	1	X		

REMARKS

RELINQUISHED BY: Greg Vad — DATE: 11-18 — TIME: 11:20

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
[illegible]	11/18/94	1120					<4		good

REMARKS: TCLP

11

2 4 1221

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., SUITE 611
CHATTANOOGA, TN 37421-2177

Report To:
SIGNAL ENVIRONMENTAL
P.O. Box 4270
CHATT. TN 37405

Invoice To:
SAME - DOM-1

Chain of Custody Record

Page 2 of 2

PROJECT SITE: SAAD SITE | PO#: DOM-1
SITE NAME: SAAD TRANSDAIG
COLLECTED BY (Signature): D.V.Veal

PROJECT #:
DATE REPORT DUE: 11-25-94
VERBAL/FAX/HARDCOPY: MIKE 265-9565

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	ANALYSES: Full TCLP							REMARKS	LAB ID NO. (for lab use only)
SADU1/17031A		Soil	11/17/13:59	1		HOLD 90 DAYS						PAY & ONE	
SADU1/17032A		Soil	11-17/4:03	1	X								
SADU1/17032B		Soil	11-17/4:03	1		HOLD 90 DAYS							
SADU1/17033A		Soil	11-17/4:05	1	X								
SADU1/17033B		Soil	11-17/4:05	1		HOLD 90 DAYS						RETURN CUSTODY SEALS	

REMARKS

RELINQUISHED BY: Troy Veal — DATE: 11-18 — TIME: 11:30

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
	11/19/94	1120					4		good

REMARKS

2 4 1222

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., SUITE 611
CHATTANOOGA, TN 37421-2177

Report To:
SIGNAL ENVIRONMENTAL
P.O. Box 4270
CHATT. TN 37405

Invoice To:
SAME - DOM-1

Chain of Custody Record

Page 2 of 2

PROJECT SITE	PO#
SAAA SITE	DOM-1
SITE NAME: SAAA TRANSFER	
COLLECTED BY (Signature): D.V.Veal	

DATE REPORT DUE: 11-25-94
VERBAL/FAX/HARDCOPY: MIKE 265-9565
PROJECT #:

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	ANALYSES: Full TCLP	REMARKS	LAB ID NO. (for lab use only)
SAA 11/17031B		Soil	11/17/3:59	1	Hold 90 Days		
SAA 11/17032A		Soil	11-17/4:03	1	X	PAY & ONG	
SAA 11/17032B		Soil	11-17/4:03	1	Hold 90 Days		
SAA 11/17033A		Soil	11-17/4:05	1	X		
SAA 11/17033B		Soil	11-17/4:05	1	Hold 90 Days	GW RETURN CUSTODY SEALS	

REMARKS

RELINQUISHED BY:	DATE	TIME
D.V.Veal	11-18	11:20

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
[illegible]	11/18/94	1120					-4		good

REMARKS:

2 4 1233

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., SUITE 611
CHATTANOOGA, TN 37421-2177

Report To:
SIGNAL ENVIRONMENTAL
P.O. Box 4270
CHATT. TN 37405

Invoice To:
SAME - DEM-1

Chain of Custody Record

PROJECT SITE	PO#
SAAD SITE	DEM-1
SITE NAME: SAAD TRANSAAIR	
COLLECTED BY (Signature): Greg Wall	

PROJECT #

DATE REPORT DUE 11-25-91

VERBAL FAX HARDCOPY mike 2659565

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	ANALYSES: Full TCLP						REMARKS	LAB ID NO. (for lab use only)
SAD 11/17035A		Soil	11-17/4:11	1	X						SEE PAGE ONE	
SAD 11/17035B		Soil	11-17/4:11	1		Hold	90	Days			RETAIN custody SAME	

REMARKS

RELINQUISHED BY: Greg Wall — DATE 11-18 — TIME 11:30

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
Walton	11/18/91	1120					2.4		Good

REMARKS

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., SUITE 611
CHATTANOOGA, TN 37421-2177

Report To: Signal Envionmental, P.O. Box 4270, Chatt. TN 37405

Invoice To: Same - DEM-1

Chain of Custody Record

Page 1 of 2

PROJECT SITE	PO#	PROJECT #
SAAD SITES	DEM-1	

SITE NAME: SAAD Trousdale

DATE REPORT DUE: 11-25-94

VERBAL/(FAX)/HARDCOPY: Mike 265-9565

COLLECTED BY (Signature): [signature]

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/TIME	NO. OF CONTAINERS	ANALYSES: Full TCLP	REMARKS	LAB ID NO. (for lab use only)
SAD 1117017A		Soil	11-17/3:15	1	X	Consolidate 17A, 18A	
SAD 1117017B		Soil	11-17/3:15	1	Hold 90 Days	19A, 20A, 21A, 22A	
SAD 1117018A		Soil	11-17/3:17	1	X	23A, For one Analysis	
SAD 1117018B		Soil	11-17/3:17	1	Hold 90 Days		
SAD 1117019A		Soil	11-17/3:20	1	X		
SAD 1117019B		soil	11-17/3:20	1	Hold 90 Days	Return custody seals	
SAD 1117020A		soil	11-17/3:25	1	X		
SAD 1117020B		Soil	11-17/3:25	1	Hold 90 Days		
SAD 1117021A		Soil	11/17/3:27	1	X		

REMARKS:

RELINQUISHED BY:	DATE	TIME
[signature]	11-18	11:20

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
[signature]	11/18/94	11:20					<4		good

REMARKS:

1295

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., SUITE 611
CHATTANOOGA, TN 37421-2177

Report To:
SIGNAL ENVIRONMENTAL
P.O. BOX 4270
CHATT. TN 37405

Invoice To:
SAAAG - DEM-1

Chain of Custody Record

PROJECT SITE: SAAA SITE | PO#: DEM-1
SITE NAME: SAAD TROUSDALE
COLLECTED BY (Signature): [signature]
PROJECT #:
DATE REPORT DUE: 11-25-94
VERBAL/FAX/HARDCOPY

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	ANALYSES: Full TCLP	ANALYSES: HOLD 90 DAYS	REMARKS	LAB ID NO. (for lab use only)
SAD11/17021B		Soil	11-17/3:27	1		HOLD 90 DAYS	SLG PASS ONLY	
SAD11/17022A		Soil	11-17/3:30	1	X			
SAD11/17022B		Soil	11-17/3:30	1		HOLD 90 DAYS		
SAD11/17023A		Soil	11-17/3:32	1	X			
SAD11/17023B		Soil	11-17/3:32	1		HOLD 90 DAYS		

REMARKS

RELINQUISHED BY: [signature] DATE 11-18 TIME 11:20

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
[signature]	11/18/94	1120					4		good

REMARKS:

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., SUITE 611
CHATTANOOGA, TN 37421-2177

Report To:
SIGNAL ENVIRONMENTAL
900 MANUFACTURES DR.
CHATT. TN 37405
615-265-9551

Invoice To:
SIGNAL ENVIRONMENTAL
DEM-1

Chain of Custody Record

Page 1 of 1

PROJECT SITE: SAAD | PO#: DEM-1
SITE NAME: SAAD SITE
COLLECTED BY (Signature): Greg Wall
PROJECT #:
DATE REPORT DUE: 12-2-94
VERBAL/FAX/HARDCOPY: mike 265-9565

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	ANALYSES: TCLP-VOL	REMARKS	LAB ID NO. (for lab use only)
R001	Rush	Soil	11-29/5:37	1	X	CONSOLIDATE INTO 1	
R002	Rush	Soil	11-29/5:33	1	X	SAMPLE & RUN TCLP-VOL	
R003	Rush	Soil	11-29/5:38	1	X	"RUSH"	
R004	Rush	Soil	11-29/5:43	1	X		
R005	Rush	Soil	11-29/5:47	1	X		
R006	Rush	Soil	11-29/5:50	1	X		
R007	Rush	Soil	11-29/6:00	1	X		

REMARKS

RELINQUISHED BY: Greg Wall — DATE 11-30 — TIME 11:45

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
	11/30/94	11:45		11/30/94	3:20P		11/30/94	3:20		11/30/94	3:43

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
	11/30/94	1543					4		good

REMARKS

1297

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., SUITE 611
CHATTANOOGA, TN 37421-2177

Report To:
Signal Environmental
900 Manufactures Rd.
Chatt. TN 37405
615-265-9551

Invoice To:
Signal Environmental
DGM-1

Chain of Custody Record

Page 1 of 1

PROJECT SITE: SAAD
PO#: DGM-1
SITE NAME: SAAD
COLLECTED BY (Signature): [signature]

PROJECT #:
DATE REPORT DUE: 12-2-94
VERBAL/FAX/HARDCOPY: (FAX circled) Mike 265-9565

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/TIME	NO. OF CONTAINERS	ANALYSES: TCLP-VOL							REMARKS	LAB ID NO. (for lab use only)
R015	Rush	Soil	11-29/5:00	1	X							Consolidate into 1	
R016	Rush	Soil	11-29/5:03	1	X							Sample & Run TCLP-VOL	
R017	Rush	Soil	11-29/5:07	1	X							"Rush"	
R018	Rush	Soil	11-29/5:09	1	X								
R019	Rush	Soil	11-29/5:10	1	X								
R020	Rush	Soil	11-29/5:15	1	X								
R021	Rush	Soil	11-29/5:20	1	X								

REMARKS:

RELINQUISHED BY:	DATE	TIME
[signature]	11-30	11:45

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
[signature]	11/30/94	11:45	[signature]	11/30/94	3:20PM	[signature]	11/30/94	3:15	[signature]	11/30/94	3:48P

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
[signature]	11/30/94	1513					< 4		good

REMARKS:

2 4 1298

SPECIALIZED ASSAYS & ENVIRONMENTAL

~~ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.~~
~~4295 CROMWELL RD., SUITE 611~~
~~CHATTANOOGA, TN 37421-2177~~

Report To:
Signal Environmental
900 Manufacturers Dr.
Chatt. TN 37405
615-265-9551

Invoice To:
SIGNAL ENVIRONMENTAL
DEM-1

Chain of Custody Record

PROJECT SITE	PO#
SAAD	DEM-1

SITE NAME: SAAD

COLLECTED BY (Signature): [illegible signature]

PROJECT #: D[illegible]

DATE REPORT DUE: 12-2-94

VERBAL/FAX/HARDCOPY (FAX/HARDCOPY circled) — Greg Vidal 333-0397

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	ANALYSES: TCLP-Vol						REMARKS	LAB ID NO. (for lab use only)
R001	Rush	Soil	11-29 / 5:27	1	X						Consolidate into 1	
R002	Rush	Soil	11-29 / 5:32	1	X						Sample + Run TCLP Vol	
R003	Rush	Soil	11-29 / 5:38	1	X						"RUSH"	
R004	Rush	Soil	11-29 / 5:43	1	X							
R005	Rush	Soil	11-29 / 5:47	1	X							
R006	Rush	Soil	11-29 / 5:52	1	X							
R007	Rush	Soil	11-29 / 6:00	1	X							

REMARKS:

RELINQUISHED BY:	DATE	TIME
[illegible signature]	11-30	11:09

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
[illegible signature]	11-30	11:00	[illegible signature]	11-30	11:21						

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
[illegible signature]	11-30-94	11:00							

REMARKS: [illegible signature]

12294

SPECIALIZED ASSAYS ENVIRONMENTAL

~~ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.~~
~~4205 ... CHATTANOOGA, TN 37421-2177~~
JVV.

Report To:
Signal Environmental
900 Manufactures Rd.
Chatt. TN 37405
615-265-9551

Invoice To:
Same

Chain of Custody Record

Page 1 of 1

PROJECT SITE	PO#	PROJECT #
SAAD	DEM-1	DEM-...

SITE NAME: SAAD Site

COLLECTED BY (Signature): [signature]

DATE REPORT DUE: 12-2-94

VERBAL/FAX/HARDCOPY: Mike FAX 615-265-9565

ANALYSES: TCLP-Vol

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	TCLP-Vol	REMARKS	LAB ID NO. (for lab use only)
R008	Rush	Soil	11-30/8:00	1	X	Consolidate into 1	
R009	Rush	Soil	11-30/8:02	1	X	Sample & Run TCLP-Vol	
R010	Rush	Soil	11-30/8:04	1	X	"Rush"	
R011	Rush	Soil	11-30/8:06	1	X		
R012	Rush	Soil	11-30/8:08	1	X		
R013	Rush	Soil	11-30/8:10	1	X		
R014	Rush	Soil	11-30/8:12	1	X		

REMARKS

RELINQUISHED BY:	DATE	TIME
[signature]	11-30	11:00

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
[signature]	11-30	11:00	[signature]	11-30	1121						

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
[signature]	11/30/94	1100							

REMARKS

2 4 1 3 3 0

SPECIALIZED ASSAYS ENVIRONMENTA

~~ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.~~
~~4805 CROMWELL RD., SUITE 611~~
~~CHATTANOOGA, TN 37421-2177~~
SVV

Report To:
SIGNAL ENVIRONMENTAL
900 MANUFACTURERS RD.
CHATT. TN 37405
615-265-9551

Invoice To:
SIGNAL ENVIRONMENTAL
DEM-1

Chain of Custody Record

Page 1 of 1

PROJECT SITE: SAAD | PO#: DEM-1
SITE NAME: SAAD
COLLECTED BY (Signature): Greg V Wal
PROJECT #: Dem-[illegible]
DATE REPORT DUE: 12-2-94
VERBAL/FAX/HARDCOPY: Greg V.V SAL 333-0397

ANALYSES: TCLP-VOL

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/TIME	NO. OF CONTAINERS	TCLP-VOL						REMARKS	LAB ID NO. (for lab use only)
R015	Rush	Soil	11-29/5:00	1							CONSOLIDATE into 1	
R016	Rush	Soil	11-29/5:03	1							SAMPLE + Run TCLP-VOL	
R017	Rush	Soil	11-29/5:07	1							"Rush"	
R018	Rush	Soil	11-29/5:09	1								
R019	Rush	Soil	11-29/5:10	1								
R020	Rush	Soil	11-29/5:15	1								
R021	Rush	Soil	11-29/5:20	1								

REMARKS:

RELINQUISHED BY:	DATE	TIME
Greg V Wal	11-30	11:00

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
[signature]	11-30	11:00	[signature]	11-30	11:26				~~Greg V Wal~~		

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
[signature]	11/30	1100							

REMARKS:

SPECIALIZED ASSAYS ENVIRONMENTAL

[redacted]

JVV.

Report To:
Signal Environmental
900 Manufactures Rd.
Chatt. TN 37405
615-265-9551

Invoice To:
SAMS

Chain of Custody Record

Page 1 of 1

PROJECT SITE	PO#	PROJECT #
SAAD	DEM-1	DEM-…

SITE NAME: SAAD

COLLECTED BY (Signature): Greg Weal

DATE REPORT DUE: 12-2-94

VERBAL/FAX/HARDCOPY: Mike 615-265-9565

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/TIME	NO. OF CONTAINERS	ANALYSES: TCLP-Vol	REMARKS	LAB ID NO. (for lab use only)
R022	Rush	Soil	11-30/8:20	1	X	Consolidate into 1	
R023	Rush	Soil	11-30/8:23	1	X	Samples + Run TCLP-Vol	
R024	Rush	Soil	11-30/8:25	1	X	"Rush"	
R025	Rush	Soil	11-30/8:27	1	X		
R026	Rush	Soil	11-30/8:28	1	X		
R027	Rush	Soil	11-30/8:32	1	X		
R028	Rush	Soil	11-30/8:35	1	X		

REMARKS:

RELINQUISHED BY: Greg Weal — DATE: 11-30 TIME: 11:00

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Shelly	11-30	11:00	Shelly	11-30	11:24						

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
[signature]	11/30/94	1100							

REMARKS:

SPECIALIZED ASSAYS ENVIRONMENTAL

~~ANALYTICAL INDUSTRIAL~~
~~RESEARCH LABORATORIES, INC.~~
~~CHATTANOOGA, TN 37421~~

SVL

Report To:
SIGNAL ENVIRONMENTAL
900 MANUFACTURERS Rd.
CHATT. TN 37405
615-265-9551

Invoice To:
SIGNAL - SAME

Chain of Custody Record

Page 1 of 1

PROJECT SITE	PO#
SAAD	DEM-1

SITE NAME: SAAD

COLLECTED BY (Signature): Greg Wall

PROJECT #: DEM-1

DATE REPORT DUE: 12-2-94

VERBAL/FAX/HARDCOPY: mike 615-265-9565

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	ANALYSES: TCLP-VOL	REMARKS	LAB ID NO. (for lab use only)
R029	Rush	Soil	11-30/8:40	1	X	CONSOLIDATE ING 1	
R030	Rush	Soil	11-30/8:40	1	X	SAMPLE RUN TCLP-VOL	
R031	Rush	Soil	11-30/8:45	1	X	"Rush"	
R032	Rush	Soil	11-30/8:47	1	X		
R033	Rush	Soil	11-30/8:50	1	X		
R034	Rush	Soil	11-30/8:52	1	X		
R035	Rush	Soil	11-30/8:55	1	X		

REMARKS

RELINQUISHED BY: Greg Wall — DATE: 11-30-94 — TIME: 11:00

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
[illegible]	11-30-94	11:00	[illegible]	11-30-94	11:47						

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
[illegible]	12/1/94	1100							

REMARKS:

SIGNAL ENVIRONMENTAL SERVICES, INC. 900 Manufacturers, P.O. Box 4270 Chattanooga, TN 37405	Sample # SAD 10/27001A	Date 10-27-94	Seal Broken By:
	Signature Greg Vval		
	Print Name and Title GREG V. VOAL		Date 10/31/94

SIGNAL ENVIRONMENTAL SERVICES, INC. 900 Manufacturers, P.O. Box 4270 Chattanooga, TN 37405	Sample # SAD 10/27001B	Date 10-27-94	Seal B[illegible] By:
	Signature Greg Vval		
	Print Name and Title GREG V. VOAL		Date 10-31-94

17431 Signal Environmental 4 1504

SIGNAL ENVIRONMENTAL SERVICES, INC.
900 Manufacturers, P.O. Box 4270
Chattanooga, TN 37405

Sample # SAD 11/3002A | Date 11-3-94 | Seal Broken By:
Signature Greg V Val
Print Name and Title GREG V. VEAL | Date 11-7-94

SIGNAL ENVIRONMENTAL SERVICES, INC.
900 Manufacturers, P.O. Box 4270
Chattanooga, TN 37405

Sample # SAD 11/3003A | Date 11-3-94 | Seal Broken By:
Signature Greg V Val
Print Name and Title GREG V. VEAL | Date 11-7-94

SIGNAL ENVIRONMENTAL SERVICES, INC.
900 Manufacturers,
Chattanooga, TN 37

Sample # SAD 11/3004A | Date 11-3-94 | Seal Broken By:
Signature Greg V Val
Print Name and Title GREG V. VEAL | Date 11-7-94

SIGNAL ENVIRONMENTAL SERVICES, INC.
900 Manufacturers, P.O. Box 4270
attanooga, TN 37405

Sample # SAD 11/3005A | Date 11-3-94 | Seal Broken By:
Signature Greg V Val
Print Name and Title GREG V. VEAL | Date 11-7-94

SIGNAL ENVIRONMENTAL SERVICES, INC.
900 Manufacturers, P.O. Box 4270
Chattanooga, TN 37405

Sample # SAD 11/3006A | Date 11-3-94 | Seal Broken By:
Signature Greg V Val
Print Name and Title GREG V. VEAL | Date 11-7-94

SIGNAL ENVIRONMENTAL SERVICES
900 Manufacture 4270
Chattanooga, TN

Sample # SAD 11/3007A | Date 11-3-94 | Seal Broken By:
Signature Greg V Val
Print Name and Title GREG V VEAL | Date 11-7-94

SIGNAL ENVIRONMENTAL SERVICES, INC.
900 Manufacturers, P.O. Box 4270
Chattanooga, TN 37405

Sample # SAD 11/3008A | Date 11-3-94 | Seal Broken By:
Signature Greg V Val
Print Name and Title GREG V. VEAL | Date 11-7-94

17262

18503

SIGNAL ENVIRONMENTAL
SERVICES, INC.
900 ... rs, P.O. Box 4270
Chat ... 37405

Sample # SAD 11/3 011A | Date 11-3-94
Signature Greg Vliet
Print Name and Title Greg Vigal
Seal Broken By:
Date 11-16-94

SIGNAL ENVIRONMENTAL
SERVICES, INC.
900 Manufacturers, P.O. Box 4270
Chattanooga, TN 37405

Sample # SAD 11/3 012A | Date 11-3-94
Signature Greg Vliet
Print Name and Title Greg Vigal
Seal Broken By:
Date 11-18-94

SIGNAL ENVIRONMENTAL
SERVICES, INC.
00 Manufacturers, P.O. Box 4270
attanooga, TN 37405

Sample # SAD 11/3 009A | Date 11-3-94
Signature Greg Vliet
Print Name and Title Greg Vigal
Seal Broken By:
Date 11-18-94

HOLD

SIGNAL ENVIRONMENTAL
SERVICES, INC.
900 Manufacturers, P.O. Box 4270
Chattanooga, TN 37405

18503

Sample # SAD 11/3 010A | Date 11-3-94
Signature Greg Vliet
Print Name and Title Greg Vigal
Seal Broken By:
Date 11-18-94

18503 - 18507

SIGNAL ENVIRONMENTAL
SERVICES, INC.
900 Manufacturers, P.O. Box 4270
Chattanooga, TN 37405

Sample # SAD 11/1713-16 | Date 11-17-94 | Seal Broken By:
Signature Greg VVal | JSelton
Print Name and Title: GREG V. VEAL | Date 11/18/94

SIGNAL ENVIRONMENTAL
SERVICES, INC.
900 Manufacturers, P.O. Box 4270
Chattanooga, TN 37405

Sample # SAD 11/17 | Date 11-17-94 | Seal Broken By:
Signature Greg VVal | JSelton
Print Name and Title: GREG V. VEAL | Date 11/18/94

017

SIGNAL ENVIRONMENTAL
SERVICES, INC.
900 Manufacturers, P.O. Box 4270
Chattanooga, TN 37405

Sample # SAD 11/17 | Date 11-17-94 | Seal Broken By:
Signature Greg VVal | JSelton
Print Name and Title: GREG V. VEAL | Date 11/18/94

SIGNAL ENVIRONMENTAL
SERVICES, INC.
900 Manufacturers, P.O. Box 4270
Chattanooga, TN 37405

Sample # SAD 11/17 | Date 11-17-94 | Seal Broken By:
Signature Greg VVal | JSelton
Print Name and Title: GREG V. VEAL | Date 11/18/94

RECEIVED
NOV 23 1994

18504 18507

APPENDIX 6

2 4 1309

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. . . . . Manifest Document No. 0.0.0.1 2. Page 1 of 1

3. Generator's Name and Mailing Address
J.P. SAAD TRANSDALE SITE
3655 TRANSDALE Dr. NASHVILLE TN 37211
4. Generator's Phone (615) 333-0397

5. Transporter 1 Company Name: MC TANK Transport, Inc. 6. US EPA ID Number: C.H.D.9.8.7.C.1.6.0.0.3

7. Transporter 2 Company Name 8. US EPA ID Number . . . . . .

9. Designated Facility Name and Site Address
LAIDLAW ENVIRONMENTAL SERVICES (WT), INC
1040 ANTIOCH PIKE
ANTIOCH TN 37013
10. US EPA ID Number: T.N.D.0.0.0.7.7.2.2.7.7

A. Transporter's Phone (615) 793-3802
B. Transporter's Phone
C. Facility's Phone (615) 833-2059

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS WATER NOS. (PIT WATER)	0.0.1	T.T	0.5.0.0.0	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: GREG V. VEAL THE SAAD SITE AS ASSISTANT ON BEHALF OF STORING COMPANIES
Signature: Greg V Veal
Month 1.2 Day 0.7 Year 9.4

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Joe R. McAuley
Signature: Joe R. McAuley
Month 1.2 Day 0.7 Year 9.4

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month . Day . Year .

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name
Signature
Month . Day . Year .

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL-RETURN TO GENERATOR

12-BLS-C6 Rev. 9/92

print or type
designed for use on elite (12-pitch) typewriter

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.:
Manifest Document No.: W0002
2. Page 1 of

3. Generator's Name and Mailing Address
J. P. SAAD TROUSDALE SITE
5655 TROUSDALE Dr. NASHVILLE TN 37211

4. Generator's Phone (615) 333-0397

5. Transporter 1 Company Name: MC TANK TRANSPORT INC.
6. US EPA ID Number: OHD987016003

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
LAIDLAW ENVIRONMENTAL SERVICES (WT) INC.
1640 ANTIOCH PIKE
ANTIOCH, TN 37013

10. US EPA ID Number: TND000772277

A. Transporter's Phone (615) 793-3802
B. Transporter's Phone
C. Facility's Phone (615) 833-2059

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS WATER N.O.S. (PIT WATER)	001	TT	05000	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: GREG VINSAL AS AGENT FOR AND ON BEHALF OF THE SAAD SITE STEERING COMMITTEE
Signature: Greg V Vel
Month Day Year: 11 20 94

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Joe C. Lear
Signature: Joe C. Lear
Month Day Year: 11 20 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Month Day Year

GENERATOR / TRANSPORTER / FACILITY

2 4 1511

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
	W.0.0.0.3	

GENERATOR

3. Generator's Name and Mailing Address
J.P. SAAD TRANSDALE SITE
3655 TRANSDALE Dr. NASHVILLE TN 37211
4. Generator's Phone (615) 333-0397

5. Transporter 1 Company Name	6. US EPA ID Number
MC TANK TRANSPORT INC.	C H 0 9 8 7 0 1 6 0 0 3
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
LAIDLAW ENVIRONMENTAL SERVICES (WT) INC 1640 ANTIOCH PIKE ANTIOCH, TN 37013	T N D 0 6 6 6 7 7 2 2 7 7

A. Transporter's Phone (615) 793-3802
B. Transporter's Phone
C. Facility's Phone (615) 833-2059

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS WATER N.O.S. (PIT WATER)	001	TT	05000	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
GREG V. VEAL AS AGENT FOR AND BEHALF OF THE SAAD SITE STEERING COMMITTEE	Greg V Veal	12	07	94

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Joe R. McAuley	Joe R. McAuley	12	07	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

Please print or type
Form designed for use on elite (12-pitch) typewriter.

2 4 1312

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. W 0 0 0 4 | 2. Page 1 of 1

3. Generator's Name and Mailing Address
J. P. SAAD TRUSDALE SITE
3655 TRUSDALE Dr. NASHVILLE TN 37211
Generator's Phone (615) 333-0397

5. Transporter 1 Company Name | 6. US EPA ID Number
MC TANK TRANSPORT INC | T N D 9 8 7 0 1 6 0 0 3

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address | 10. US EPA ID Number
LAIDLAW ENVIRONMENTAL SERVICES (WTI) INC.
1640 ANTIOCH PIKE
ANTIOCH, TN 37013 | T N D 0 0 0 7 7 2 2 7 7

A. Transporter's Phone 615-793-3802
B. Transporter's Phone
C. Facility's Phone 615-833-2059

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS WATER N.O.S. (PIT WATER)	001	TT	05000	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name GREG V. VEAL | Signature Greg V Veal | Month 11 | Day 20 | Year 94
AS AGENT FOR & ON BEHALF OF THE SAAD SITE STEERING COMMITTEE

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name JOE C. LEAR | Signature Joe C. Lear | Month 11 | Day 20 | Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL-RETURN TO GENERATOR

12-BLS-CB Rev. 9/92

ANALYTICAL INDUSTRIAL RESEARCH LABORATORY
4295 Cromwell Road, Suite 614
Chattanooga, Tennessee 37421-2177
(615) 894-8102

2 4 1313

LAB. NO.: 941104-17763

CUSTOMER: 1237
SIGNAL ENVIRONMENTAL SERVICES
P.O. BOX 4270
CHATTANOOGA, TN 37405

DATE RECD. : 11/04/94
SAMPLE DATE: 11/03/94

ATTENTION: MICHAEL MATTHEWS
(615) 265-9551 FAX:

DATE REQUESTED :
CUST P.O.: DEM-1

SAMPLE : SAAD NASHVILLE SAAD SITE
: SAD11/3001W WATER

ASAP

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ANALYSIS

			M.D.L.	Methods	Date	Initial
BOD	31	mg/L	2	405.1	11-04-94	MG
TSS	81	mg/L	1	160.2	11-08-94	MG
TDS	400	mg/L	1	160.3	11-07-94	MG
MBAS	2.15	mg/L	0.025	425.1	11-07-94	PL
Ammonia	2.05	mg/L	0.05	350.2	11-09-94	TB
pH	7.4	mg/L	N/A	150.1	11-04-94	PG
Oil & Grease	24.4	mg/L	0.1	413.1	11-09-94	PL
TKN	75.94	mg/L	0.05	351.3	11-09-94	TB
Iron	3.04	mg/L	0.007	200.7	11-09-94	DS
Manganese	0.930	mg/L	0.002	200.7	11-09-94	DS

TP TOXICITY CHARACTERISTIC CONSTITUENTS:

SEE ATTACHED

RECEIVED
NOV 1994

Notes:

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

We hereby certify that the analytical procedures employed are those approved by the Environmental Protection Agency or other applicable methods for these analyses.

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES

By [signature]

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., STE 611
CHATTANOOGA, TN 37421-2177

AIRL SAMPLE I.D. · 17763 **TCLP METHOD 1311**
SIGNAL ENVIRONMENTAL SERVICES **SAMPLE DATE: 11/03/94**
SAMPLE: SAD11/3001W

EPA HW NUMBER	CONSTITUENT	REGULATORY LEVEL(mg/L)	MDL (mg/L)	RESULT (mg/L)	DATE ANALYZED	METHOD (SW-846)
TCLP VOLATILES (ZHS)						
D018	BENZENE	0.5	0.1	ND	11/09/94	8240
D019	CARBON TETRACHLORIDE	0.5	0.1	ND	11/09/94	8240
D021	CHLOROBENZENE	100.	10.	ND	11/09/94	8240
D022	CHLOROFORM	6.0	1.0	ND	11/09/94	8240
D027	1,4-DICHLOROBENZENE	7.5	1.0	ND	11/09/94	8240
D028	1,2-DICHLOROETHANE	0.5	0.1	ND	11/09/94	8240
D029	1,1-DICHLOROETHYLENE	0.7	0.1	ND	11/09/94	8240
D035	METHYL ETHYL KETONE	200.	20	ND	11/09/94	8240
D039	TETRACHLOROETHYLENE	0.7	0.1	ND	11/09/94	8240
D040	TRICHLOROETHYLENE	0.5	0.1	ND	11/09/94	8240
D043	VINYL CHLORIDE	0.2	0.1	ND	11/09/94	8240
TCLP SEMIVOLATILES						
TCLP ACIDS						
D023	o-CRESOL	200	1.0	ND	11/09/94	8270
D024	m-CRESOL	200	1.0	ND	11/09/94	8270
D025	p-CRESOL	200	1.0	ND	11/09/94	8270
D026	CRESOLS (TOTAL)	200	1.0	ND	11/09/94	8270
D037	PENTACHLOROPHENOL	100	1.0	ND	11/09/94	8270
D041	2,4,5-TRICHLOROPHENOL	400	1.0	ND	11/09/94	8270
D042	2,4,6-TRICHLOROPHENOL	2.0	1.0	ND	11/09/94	8270
TCLP BASE/NEUTRALS						
D030	2,4-DINITROTOLUENE	0.13	0.05	ND	11/09/94	8270
D032	HEXACHLOROBENZENE	0.13	0.05	ND	11/09/94	8270
D033	HEXACHLORO-1,3-BUTADIENE	0.5	0.1	ND	11/09/94	8270
D034	HEXACHLOROETHANE	3.0	0.5	ND	11/09/94	8270
D036	NITROBENZENE	2.0	1.0	ND	11/09/94	8270
D038	PYRIDINE	5.0	2.5	ND	11/09/94	8270
TCLP PESTICIDES						
D020	CHLORDANE	0.03	0.01	ND	11/09/94	8080
D012	ENDRIN	0.03	0.01	ND	11/09/94	8080
D031	HEPTACHLOR	0.008	0.005	ND	11/09/94	8080
	-EPOXIDE	0.008	0.005	ND	11/09/94	8080
D013	LINDANE	0.4	0.1	ND	11/09/94	8080
D014	METHOXYCHLOR	10	1.0	ND	11/09/94	8080
D015	TOXAPHENE	0.5	0.1	ND	11/09/94	8080
TCLP HERBICIDES						
D016	2,4-D	10.0	0.5	ND	11/09/94	8150
D017	2,4,5-TP (SILVEX)	1.0	0.5	ND	11/09/94	8150
TCLP METALS						
D004	ARSENIC	5.0	0.5	ND	11/09/94	6010
D005	BARIUM	100	5.0	ND	11/09/94	6010
D006	CADMIUM	1.0	0.1	ND	11/09/94	6010
D007	CHROMIUM	5.0	0.5	ND	11/09/94	6010
D008	LEAD	5.0	0.5	ND	11/09/94	6010
D009	MERCURY	0.2	0.01	ND	11/09/94	7470
D010	SELENIUM	1.0	0.1	ND	11/09/94	6010
D011	SILVER	5.0	0.5	ND	11/09/94	6010

Performed in accordance with 40 CFR 261(06/29/90)

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., SUITE 611
CHATTANOOGA, TN 37421-2177

Report To:
SIGNAL ENVIRONMENTAL
900 MANUFACTURES RD.
CHATT. TN 37405
615-265-9551

Invoice To:
SAME.

Chain of Custody Record

Page 1 of 1

PROJECT SITE	PO#
SAAD Nashville	DEM-1
SITE NAME: SAAD SITE	
COLLECTED BY (Signature): Greg Ved	

PROJECT #
DATE REPORT DUE
VERBAL/FAX/HARDCOPY: ASAP

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	ANALYSES: TCLP Fe, Mn	TKN, OIL & GREASE	MBAS, TSS,	BOD, SS	AMMONIA, pH			REMARKS	LAB ID NO. (for lab use only)
~~SAD 11/300W~~	~~X~~	WATER	#3 15:16	10	X	X	X	X	X			RETURN CUSTODY SEALS	
SAD 11/300W	X											TO SIGNAL	
												~~Remarks~~ one duplicate	
												of Sample ~~Collected~~ if needed	
												Please hold	
												until further	
												notice	

REMARKS

RELINQUISHED BY: Greg Ved — DATE 11-4-94 — TIME 11:46

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Donna Adams	11/4/94	11:46									

11-4-94

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
C. Patterson	11/4/94	12:5							

REMARKS:

APPENDIX 7

2 4 1317

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
TND065833543	000091		

3. Generator's Name and Mailing Address
J. P. SAAD TROUSDALE SITE
3655 TROUSDALE DR. NASHVILLE TN 37211

4. Generator's Phone (615) 333-0397

A. State Manifest Document Number

B. State Generator's ID

C. State Transporter's ID

D. Transporter's Phone 764-8440

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone 219-447-9585

5. Transporter 1 Company Name	6. US EPA ID Number
ROBBIE D. WOOD	ALD067138891

7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
CHEMICAL WASTE MANAGEMENT, INC. 4636 ADAMS CENTER ROAD FORT WAYNE IN 46806	IND000789111146

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S. (D040), 9, NA 3077 PG III (D040)	X	001	DT	46000	P	D040
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
BR 5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
RETURN MANIFEST TO: P.O. BOX 4270
CHATTANOOGA TN. 37405

CWM EMERGENCY RESPONSE INFO
1-800-765-8713

24 HR # 1-800-925-9551

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
AS AGENT FOR ON BEHALF THE SAAD SITE STEERING COMMITTEE		11	07	91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Kenneth A. Donaldson	Kenneth A Donaldson	11	07	91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

2 4 1313

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. TND065833543 | Manifest Document No. 10002 | 2. Page 1 of | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
J. P. SAAD TRUCKAGE SITE
3655 TRUCKAGE DR. NASHVILLE TN 37211
4. Generator's Phone (615) 333-6397

5. Transporter 1 Company Name: ROBBIE D. WOOD | 6. US EPA ID Number: ALD067138891
7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806 | 10. US EPA ID Number: IND078911146

A. [redacted]
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone 205-744-8440
E. Transporter's ID
F. Transporter's Phone
G. State Facility's ID
Transporter's Phone 205
H. Facility's Phone 219-447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE SOLID N.O.S. (D010), 9, NA3077 PG III (D040)	X	001	DT	46000	P	D040
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
B-R-5-910

K. Handling Codes for Wastes Listed Above
D-81-LANDFILL

15. Special Handling Instructions and Additional Information
RETURN MANIFEST TO: P.O. BOX 4270
CHATT. TN 37405

CWM EMERGENCY RESPONSE INFO
1-800-765-E713
24 HR # 1-800-925-9551

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
AS AGENT FOR & ON BEHALF OF THE SAAD SITE TRUCKAGE FACILITIES		12	07	94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
DAVE SARPER		12	07	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

GENERATOR | TRANSPORTER | FACIL

2 4 1319

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
TND065833543	A00 03		

3. Generator's Name and Mailing Address
J.P. SAAD TRANSDALE SITE
3655 TRANSDALE Dr. NASHVILLE TN 37211
4. Generator's Phone (615) 333-0397

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: ROBBIE D. WOOD
6. US EPA ID Number: ALD067135891
C. State Transporter's ID
D. Transporter's Phone: 205-744-8440

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806
10. US EPA ID Number: IND078911146
G. State Facility's ID
H. Facility's Phone: 219-447-5585

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ, HAZARDOUS WASTE, SOLID, NOS. (D040), 9, NA 3077 PG III (D040)	X	001	DT	46.000	P	D040
b.							
c.							
d.							

GENERATOR

J. Additional Descriptions for Materials Listed Above
BR5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
RETURN MANIFEST TO: P.O. BOX 4270
CHATT, TN 37405

CWM EMERGENCY RESPONSE INFO
1-800-765-8713
24 hr # 1800-925-9551

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
AS AGENT FOR THE SAAD SITE REMEDIAL ACTION SELECTION COMMITTEE		12	10	84

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		12	10	84

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22 (Rev. 9-92) Previous edition obsolete.

ORIGINAL RETURN TO GENERATOR

7-BLS-C6 (Rev. 10/92)

2 4 1320

Published by J. J. KELLER & ASSOCIATES, INC., Neenah, WI 54957-0368

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: T.N.D.0.6.5.8.3.3.5.4.3 | Manifest Document No.: 4.0.0.0.4

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
J.P. SAAD TROUSDALE SITE
3655 TROUSDALE DR NASHVILLE TN 37211

4. Generator's Phone (615) 333-0397

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: R.C.B.E.D. WOOD | 6. US EPA ID Number: A.L.D.0.6.7.1.3.8.9.1

C. State Transporter's ID

D. Transporter's Phone: 205-744-8448

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806

10. US EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

G. State Facility's ID

H. Facility's Phone: 219-447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, NOS (D040), 9, NA3077 PG III (D040)	X	001	DT	48000	P	D040
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
BR5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
RETURN MANIFEST TO: P.O. BOX 4970
CHATT. TN 37405

CWM EMERGENCY RESPONSE INFO
1-800-765-8713
24Hr # 1800-925-9551

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

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Printed/Typed Name	Signature	Month	Day	Year
AS AGENT FOR ON BEHALF OF THE SAAD SITE SITING COMMITTEE		12	07	94

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Charles R Jones		12	07	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

2 4 1621

Please print or type

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: TND065833543
Manifest Document No.: 10005
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: J.P. SAAD TROUSDALE SITE, 3655 TROUSDALE Dr. NASHVILLE TN 37211
4. Generator's Phone (615) 333-0397
A. State Manifest Document Number:
B. State Generator's ID:

5. Transporter 1 Company Name: Dart Trucking Co. Inc
6. US EPA ID Number: OHD098658825
C. State Transporter's ID: T737KCOh
D. Transporter's Phone: 216-533-9841

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: CHEMICAL WASTE MANAGEMENT INC. 4636 ADAMS CENTER ROAD FORT WAYNE IN 46806
10. US EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, NOS (D040), 9, NA3077 PG III (D040)	X	001	DT	46000	P	D040
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above: BR5960

K. Handling Codes for Wastes Listed Above: D-81 LANDFill

15. Special Handling Instructions and Additional Information:
RETURN MANIFEST TO: P.O. Box 4270 CHATTANOOGA TN 37405
CWM EMERGENCY RESPONSE INFO 1-800-765-8713
24 Hr # 1800-925-9551

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

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Printed/Typed Name	Signature	Month	Day	Year
As Agent For & on Behalf of THE SAAD SITE STEERING COMMITTEE	[signature]	12	08	94

GENERATOR

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
James L. Crump 936	James L. Crump 936	12	08	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

TRANSPORTER

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

EPA Form 8700-22 (Rev. 9-92) Previous edition obsolete.

7-BLS-C6

2 4 1322

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. TN D 0 6 5 3 3 3 5 4 3	Manifest Document No. R 0 0 0 6	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
JP SAAD TRousDALE SITE
3655 TrousDALE Dr. NASHVILLE TN 37211
4. Generator's Phone (615) 333-0397

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: ROBBIE D. WOOD — 6. US EPA ID Number: AL D 0 6 7 1 3 8 8 9 1
C. State Transporter's ID
D. Transporter's Phone 205-744-8140

7. Transporter 2 Company Name — 8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT INC.
4636 ADAMS CENTER RD.
FORTWAYNE IN 46806
10. US EPA ID Number: IN D 0 7 8 9 1 1 1 4 6
G. State Facility's ID
H. Facility's Phone 219-447-5585

HM	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
X	a. RQ, HAZARDOUS WASTE, SOLID, N.O.S. (D040), 9, NA 3077 PG III (D040)	001	DT	47000	P	D040
	b.					
	c.					
	d.					

J. Additional Descriptions for Materials Listed Above
BR 5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
RETURN MANIFEST TO: P.O. BOX 4270
CHATT. TN 37405
CWM EMERGENCY RESPONSE INFO
1-800 765-8713
24Hr # 1-800-925-9551

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

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Printed/Typed Name: AS AGENT FOR TENNESSEE THE SAAD SITE STEERING COMMITTEE — Signature: [signature] — Month Day Year: 12 08 94

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Larry Redd — Signature: [signature] — Month Day Year: 12 08 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 9-92) Previous edition obsolete.

ORIGINAL-RETURN TO GENERATOR

7-BLS-C6 (Rev. 10/92)

2 4 1323

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
TND065833543	A0007	Page 1 of 1	

3. Generator's Name and Mailing Address
J.P. SAAD TROUSDALE SITE
3655 TROUSDALE DR. NASHVILLE TN 37211

4. Generator's Phone (615) 333-0397

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: ROBBIE D WOOD
6. US EPA ID Number: ALD 067138891

C. State Transporter's ID

D. Transporter's Phone 205-744-8440

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FT. WAYNE IN 46806

10. US EPA ID Number: IND 078911146

G. State Facility's ID

H. Facility's Phone 219-447-5585

	HM	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ, HAZARDOUS WASTE SOLID, N.O.S. (D040), 9, NA 3077 PG III (D040)	001	DT	42,000	P	D040
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
BR5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
RETURN MANIFEST TO: P.O. BOX 4270
CHATTANOOGA TN 37405

CWM EMERGENCY RESPONSE INFO
1-800-765-8713
24hr # 1-800-925-9551

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

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Printed/Typed Name	Signature	Month	Day	Year
AS AGENT FOR AND ON BEHALF OF THE SAAD SITE STEERING COMMITTEE	[signature]	12	08	94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
GARY CAMPBELL #60	[signature]	1	04	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-92) Previous edition obsolete.

ORIGINAL-RETURN TO GENERATOR

7BLS-C6

2 4 1324

Please print or type

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. TND.065.833.543 | Manifest Document No. 170008 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
J.F. SAAD TROUSDALE SITE
5655 TROUSDALE DR. NASHVILLE TN 37211
4. Generator's Phone (615) 333-0347

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: BOBBIE D. WOOD | 6. US EPA ID Number: ALD.067.138.891
C. State Transporter's ID
D. Transporter's Phone 205-744-8440

7. Transporter 2 Company Name | 8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806
10. US EPA ID Number: IND.078.411.146
G. State Facility's ID
H. Facility's Phone 219-447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., (D040), 9, NA 3077 PG III (D040)	X	001	DT	48000	P	D040
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
BR5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
RETURN MANIFEST TO: P.O. BOX 4270
CHATT TN 37405

CWM EMERGENCY RESPONSE INFO
1-800-765-8713
24 Hr # 1-800-925-9551

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

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Printed/Typed Name: THE SAAD SITE AS AGENT FOR ON BEHALF OF STEERING COMMITTEE | Signature | Month 11 Day 02 Year 94

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jeffrey Lawley | Signature | Month 11 Day 02 Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month . Day . Year .

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month . Day . Year .

EPA Form 8700-22 (Rev. 9-92) Previous edition obsolete.

ORIGINAL-RETURN TO GENERATOR

7-BLS-C6 10/92

2 4 1325

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. T.N.D.0.6.5.8.3.3.5.4.3 | Manifest Document No.: 40067

2. Page 1 of | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
J.F. SAAD TRANSDAIS SITE
3655 TRANSDAIS DR. NASHVILLE TN 37211

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (615) 333-0397

5. Transporter 1 Company Name: ROBBIE D. WOOD | 6. US EPA ID Number: AL.A.0.6.7.1.3.8.5.9.1

C. State Transporter's ID

D. Transporter's Phone 205-744-8940

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806

10. US EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

G. State Facility's ID

H. Facility's Phone 219-447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S. (D040), 9, NA 3077 PG III (D040)	X	001	DT	47000	P	D040
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
BR 5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
RETURN MANIFEST TO: P.O. BOX 4270
CHATT. TN 37405

CWM EMERGENCY RESPONSE INFO
1-800-765-8713
24 Hr # 1-800-925-9551

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GENERATOR

Printed/Typed Name: AS AGENT FOR JOHN DEHAEF THE SAAD SITE SITING COMMITTEE | Signature: Gary W Vest | Month 12 | Day 08 | Year 94

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: WILLIE FORTNER | Signature: Willie Fortner | Month 12 | Day 08 | Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 9-92) Previous edition obsolete.

ORIGINAL-RETURN TO GENERATOR

7-BLS-C6

2 4 1626

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
TNA0658323543	A00/0		

3. Generator's Name and Mailing Address
J.P. SAAD TROUSDALE SITE
3655 TROUSDALE DR. NASHVILLE TN 37211
4. Generator's Phone (615) 333-0397

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
RABBIT D. WOOD	ALA0671385491	D. Transporter's Phone 205-744-8440
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility's ID
CHEMICAL WASTE MANAGEMENT, INC 4636 HOMS CENTER ROAD FORT WAYNE IN 46806	IND078911146	H. Facility's Phone 219-447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, NOS. (D040), 9, NA 3077 PG III (D040)	X	001	DT	46000	P	D040
b.						
c.						
d.						

GENERATOR

J. Additional Descriptions for Materials Listed Above
BR5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
RETURN MANIFEST TO: P.O. BOX 4270
CHATT. TN 37405

CWM EMERGENCY RESPONSE INFO
1-800-765-8213
24 hr # 1-800-925-9551

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Printed/Typed Name	Signature	Month	Day	Year
THE SAAD SITE ADVISORY BOARD ON BEHALF OF STEERING COMMITTEE		1	2	94

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
MIKE THOMAS		1	20	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22 (Rev. 9-92) Previous edition obsolete.

ORIGINAL-RETURN TO GENERATOR

7-BLS-C6
10/92

2 4 1327

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: T.N.D.0.6.5.8.3.3.5.4.3 | Manifest Document No.: 7.00.7.1 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
J.P. SAAD TRANSDALE SITE
3655 TRANSDALE Dr. NASHVILLE TN 37211
4. Generator's Phone (615) 333-0397

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: ROBERT A. WEED | 6. US EPA ID Number: A.L.A.0.6.7.1.3.8.5.9.1 | C. State Transporter's ID | D. Transporter's Phone 205-744-8440
7. Transporter 2 Company Name | 8. US EPA ID Number | E. State Transporter's ID | F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806
10. US EPA ID Number: IND.0.7.8.9.1.1.1.4.6
G. State Facility's ID
H. Facility's Phone 219-447-5585

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X RQ, HAZARDOUS WASTE, SOLID, N.O.S. (D040), 9, NA3077 PG-III (D040)	001	DT	47000	P	D040
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
BR5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
RETURN MANIFEST TO: P.O. Box 4990 CHATT. TN. 37405
CWM EMERGENCY RESPONSE INFO 1-800-765-8713
24 Hr # 1-800-925-9551

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

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GENERATOR

Printed/Typed Name: AS AGENT FOR THE SAAD SITE STEERING COMMITTEE | Signature | Month 12 Day 08 Year 94

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: GEORGE PARKER | Signature | Month 12 Day 08 Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

EPA Form 8700-22 (Rev. 9-92) Previous edition obsolete.

ORIGINAL-RETURN TO GENERATOR

7-BLS-C6 (Rev. 10/92)

2 4 1328

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. T.N.D.0.6.5.8.3.5.4.3 | Manifest Document No. 0.0.1.2 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
J.P. SAAD TRANSDALE SITE
3655 TRANSDALE DR. NASHVILLE TN 37211
4. Generator's Phone (615) 333-0397

A. State Manifest Document Number

8. State Generator's ID

5. Transporter 1 Company Name: NORRIS D. WORDS | 6. US EPA ID Number: A.L.A.0.6.7.1.3.5.8.9.1 | C. State Transporter's ID | D. Transporter's Phone 205-744-8440

7. Transporter 2 Company Name | 8. US EPA ID Number | E. State Transporter's ID | F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FT WAYNE IN 46806
10. US EPA ID Number: I.N.D.0.7.9.1.1.1.4.6
G. State Facility's ID
H. Facility's Phone 219-447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. X RQ, HAZARDOUS WASTE, SOLID, NOS, (D040), 9, NA3077 PG III (D040)	001	DT	44000	P	D040
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
BR-960

K. Handling Codes for Wastes Listed Above
D-81-LANDFILL

15. Special Handling Instructions and Additional Information
RETURN MANIFEST TO: P.O. Box 4270
CHATT. TN 37405
CHEM EMERGENCY RESPONSE INFO
1-800-765-8713
24 HR # 1-800-925-9551

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Printed/Typed Name: ASSIGNED FOR AND BEHALF OF THE SAAD SITE STEERING COMMITTEE | Signature | Month 12 | Day 08 | Year 94

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Sylvester Conwell | Signature | Month 12 | Day 08 | Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 9-92) Previous edition obsolete.

ORIGINAL-RETURN TO GENERATOR

7-BLS-C6

2 4 1329

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: TND065833543
Manifest Document No.: H0013

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address:
J P SAAD TRUSDALE SITE
3655 TRUSDALE DR, NASHVILLE TN 37211

4. Generator's Phone (615) 333-0397

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: ROBBIE D. WOOD

6. US EPA ID Number: ALD067138891

C. State Transporter's ID

D. Transporter's Phone 205-744-8440

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address:
CHEMICAL WASTE MANAGEMENT, INC
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806

10. US EPA ID Number: IND078911146

G. State Facility's ID

H. Facility's Phone 219-447-5585

	HM	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ, HAZARDOUS WASTE, SOLID, NOS, (D040), 9, NA3077 PG III (D040)	001	DT	46000	P	D040
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
BR5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
RETURN MANIFEST TO: P.O. BOX 4270
CHATT- TN 37405
CWM EMERGENCY RESPONSE INFO
1-800-765-8713
24 Hr # 1-800-925-9551

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

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Printed/Typed Name	Signature	Month	Day	Year
AS AGENT FOR + ON BEHALF OF THE SAAD SITE STEERING COMMITTEE	[signature]	12	08	94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
WESLEY LAYTON	Wesley Layton	12	08	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22 (Rev. 9-92) Previous edition obsolete.

7-BLS-C6

ORIGINAL-RETURN TO GENERATOR

Published by J. J. KELLER & ASSOCIATES, INC., Neenah, WI 54957-0368

2 4 1339

e print or type
n designed for use on elite (12-pitch) typewriter.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: T.N.0.0.6.5.8.3.3.5.4.3
Manifest Document No.: 10014
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
J.F. KNOX TRANSDALE SITE
3055 TRANSDALE DR. NASHVILLE TN 37211
4. Generator's Phone (615) 533-0297

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: RUBBISH D.V.D
6. US EPA ID Number: A.L.D.0.6.7.1.3.8.5.9.1
C. State Transporter's ID
D. Transporter's Phone: 205-744-8440

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORTWAYN IN 46806
10. US EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6
G. State Facility's ID
H. Facility's Phone: 219-447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S. (D040), 9, NA 3077 PG III (D040)	X	001	DT	48000	P	D040
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
BR5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
RETURN MANIFEST TO: P.O. BOX 4970
CHATT. TN 37405

CWM EMERGENCY RESPONSE INFO
1-800-765-8713
24HR # 1-800-925-9551

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

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Printed/Typed Name	Signature	Month	Day	Year
AS AGENT FOR THE SHAD SITE STEERING COMMITTEE		12	08	94

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
WILLIAM S. BARKER JR.	William S. Barker Jr.	12	08	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

FACILITY

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

2 4 1631

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. TND065333543 | Manifest Document No. 80015 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
J.P. SAAD TRANSDALE SITE
3655 TRANSDALE DR. NASHVILLE TN 37211
4. Generator's Phone (615) 333-0397

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: ROBERT D WOOD | 6. US EPA ID Number: ALD067138991
C. State Transporter's ID
D. Transporter's Phone 205-744-2440

7. Transporter 2 Company Name | 8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806
10. US EPA ID Number: IND078911146
G. State Facility's ID
H. Facility's Phone 219-447-5585

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
GENERATOR a.	RQ, HAZARDOUS WASTE, SOLID, N.O.S. (D040), 9, NA 3077 PG III (D040)	X	001	DT	47000	P	D040
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
BR 5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
RETURN MANIFEST TO: P.O. BOX 4070
CHATT, TN 37405
CWM EMERGENCY RESPONSE INFO.
1-800-765-8713
24hr # 1-800-925-9551

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

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Printed/Typed Name: AS AGENT FOR & ON BEHALF OF THE SAAD SITE STEERING COMMITTEE | Signature | Month 11 Day 20 Year 94

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STEVEN N.C. BROWN | Signature | Month 12 Day 08 Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month . Day . Year .

FACIL

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month . Day . Year .

EPA Form 8700-22 (Rev. 9-92) Previous edition obsolete.

ORIGINAL-RETURN TO GENERATOR

7-BLS-C6 10/92

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

2 4 1532

CFWT

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch typewriter))

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but items D, F, H, I and K are required by State law.
T·N·D·0·6·5·8·3·3·5·4·3	H·0·0·1·6		

3. Generator's Name and Mailing Address
JOHN P SAAD & SONS INC
3655 TROUSDALE DR
NASHVILLE TN 37204-4518

4. Generator's Phone (615) 333-0397

A. State Manifest Document Number: INA 0987000

B. State Generator's ID:

5. Transporter 1 Company Name: DART Trucking Inc

6. US EPA ID Number: O·H·D·0·0·9·8·6·5·8·2·5

C. State Transporter's ID: T737kcoh

D. Transporter's Phone: 216-533-9841

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806

10. US EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

G. State Facility's ID:

H. Facility's Phone: (219)447-5585

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Total Wt/Vol.	Waste No.
RQ, HAZARDOUS WASTE, SOLID, N.O.S., (D040), 9, NA3077, PG III (D040)	001	DT	48000	P	D040

J. Additional Descriptions for Materials Listed Above
BR5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
CWM Emergency Response Information (800)765-8713
RETURN MANIFEST TO: P.O. BOX 4270 CHATTANOOGA TN. 37405

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Printed/Typed Name	Signature	Month	Day	Year
AS AGENT FOR ON BEHALF OF THE SAAD SITE STEERING COMMITTEE	Doug Veal	12	09	94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Tom Squires	Tom	12	09	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22
Previous editions are obsolete
State Form 11865 (R/4-89)

COPY 1. TSD MAIL TO TSD STATE

In case of a spill call the Indiana Office of Environmental Response at 800/424-8802 or 202/426-2675 (day or night) and the National Response Center at 800/241-4336

INA 0987000

P.O. Box 7035
Indianapolis, IN 46207-7035

2 4 1333 CFWT

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch typewriter.) Form Approved OMB No. 2050-0039 Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law but items D, F, H, I and K are required by State law.
IND067583543	A00017		

3. Generator's Name and Mailing Address
JOHN P SAAD & SONS INC
3655 TROUSDALE DR
NASHVILLE TN 37204-4518 NW
4. Generator's Phone (615) [redacted] 333-0397

A. State Manifest Document Number: INA 0986999
B. State Generator's ID:

5. Transporter 1 Company Name: ROBBIE D. WOOD
6. US EPA ID Number: ALD067138981
C. State Transporter's ID:
D. Transporter's Phone: 205-744-8440

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806
10. US EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: (219)447-5585

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Total Wt/Vol.	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., (D040), 9, NA3077, PG III (D040)	001	DT	46000	P	D040
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: BR5960

K. Handling Codes for Wastes Listed Above: D-81 LANDFILL

15. Special Handling Instructions and Additional Information
CWM Emergency Response Information (800)765-8713
RETURN MANIFEST TO: P.O. Box 4170 CHATTANOOGA TN 37405

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Printed/Typed Name	Signature	Month	Day	Year
AS AGENT FOR ON BEHALF OF STEERING COMMITTEE THE SAAD SITE	Greg Neal	12	09	44

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
William D. Smith	William D Smith	12	9	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22
Previous editions are obsolete
State Form 11865 (R/4-89)

COPY 1 TSD MAIL TO TSD STATE

In case of a spill call the Indiana Office of Environmental Response at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 or 202/426-2675.

INA 0986999

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

2 4 1334

CFWT

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.: T N D 0 6 5 8 3 3 5 4 3 — Manifest Document No.: A0018
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H, I and K are required by State law.

3. Generator's Name and Mailing Address:
JOHN P SAAD & SONS INC
3655 TROUSDALE DR
NASHVILLE TN 37204-4518

4. Generator's Phone (615) 333-0397

A. State Manifest Document Number: INA 0986998

B. State Generator's ID

5. Transporter 1 Company Name: DART Trucking
6. US EPA ID Number: OHD009865825

C. State Transporter's ID: T737K60h
D. Transporter's Phone: 216-533-9811

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address:
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806

10. US EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6

G. State Facility's ID

H. Facility's Phone: (219)447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No
RQ, HAZARDOUS WASTE, SOLID, N.O.S., (D040), 9, NA3077, PG III (D040)	001	DT	47000	P	D040

J. Additional Descriptions for Materials Listed Above: BR5960

K. Handling Codes for Wastes Listed Above: D-81 LANDFILL

15. Special Handling Instructions and Additional Information
CWM Emergency Response Information (800)765-8713
RETURN MANIFEST TO: P.O. BOX 4270 CHATTANOOGA TN. 37405

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Printed/Typed Name: THE SAAD SITE AS AGENT FOR ON BEHALF OF STEERING COMMITTEE — Signature: [signature] — Date: Month 12 Day 09 Year 94

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: RICHARD KALE — Signature: [signature] — Date: Month 12 Day 09 Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Date: Month Day Year

In case of a spill call the Indiana Office of Environmental Response at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 or 202/426-2675

INA 0986998

EPA Form 8700-22
Previous editions are obsolete
State Form 11865 (R/4-89)

COPY 1 TSD MAIL TO TSD STATE

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

2 4 [illegible]

CFWT

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.: T N D 0 6 5 8 3 3 5 4 3
Manifest Document No.: H 0 0 1 9
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H, I and K are required by State law.

3. Generator's Name and Mailing Address
JOHN P SAAD & SONS INC
3655 TROUSDALE DR
NASHVILLE TN 37204-4518

A. State Manifest Document Number: INA 0986997
B. State Generator's ID:

4. Generator's Phone (615) [redacted] 333-0397

5. Transporter 1 Company Name: DART Trucking
6. US EPA ID Number: 0 H D 0 0 9 8 6 5 8 2 5
C. State Transporter's ID: TT37Kooh
D. Transporter's Phone: 215-533-9841

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806

10. US EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: (219)447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Total Wt/Vol.	Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., (D040), 9, NA3077, PG III (D040)	001	DT	44000	P	D040
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: BR5960

K. Handling Codes for Wastes Listed Above: D-81 LANDFILL

15. Special Handling Instructions and Additional Information

CWM Emergency Response Information (800)765-8713

RETURN MANIFEST TO: P.O. Box 4270 CHATTANOOGA TN 37405

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: JOHN SAAD SITE ASSIGNT FOR ON BEHALF OF STEERING COMMITTEE
Signature:
Date: Month 12 Day 09 Year 94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Elmer Cole Jr.
Signature:
Date: Month 12 Day 09 Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.

Printed/Typed Name:
Signature:
Date: Month Day Year

EPA Form 8700-22
Previous editions are obsolete
State Form 11865 (R/4-89)

COPY 1. TSD MAIL TO TSD STATE

In case of a spill call the Indiana Office of Environmental Response at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 or 202/426-2675.

INA 0000001

P.O. Box 7035
Indianapolis, IN 46207-7035

2 4 1336

CFWT

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.: T N D 0 6 5 8 3 3 5 4 3 | Manifest Document No.: H 0 0 2 0 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but items D, F, H, I and K are required by State law.

3. Generator's Name and Mailing Address
JOHN P SAAD & SONS INC
3655 TROUSDALE DR
NASHVILLE TN 37204-4518

4. Generator's Phone (615) 333-0397

A. State Manifest Document Number: INA 0986996
B. State Generator's ID:

5. Transporter 1 Company Name: ROBBIE D. WOOD
6. US EPA ID Number: A L D 0 6 7 1 3 8 8 9 1
C. State Transporter's ID:
D. Transporter's Phone: 205-744-2440

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806

10. US EPA ID Number: I N D 0 7 8 9 1 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: (219)447-5585

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Total Wt/Vol.	I. Waste No.
RQ, HAZARDOUS WASTE, SOLID, N.O.S., (D040), 9, NA3077, PG III (D040)	001	DT	48000	P	D040

J. Additional Descriptions for Materials Listed Above: BR5960

K. Handling Codes for Wastes Listed Above: D-81 LANDFILL

15. Special Handling Instructions and Additional Information
CWM Emergency Response Information (800)765-8713
RETURN MANIFEST TO: P.O. Box 4270 CHATTANOOGA TN 37405

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Printed/Typed Name: AS AGENT FOR ON BEHALF OF THE SAAD SITE STEERING COMMITTEES | Signature: Gray Veal | Month 12 | Day 09 | Year 94

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JOHN F WILLIAMS | Signature: John F Williams | Month 12 | Day 09 | Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: | Signature: | Month | Day | Year

EPA Form 8700-22
Previous editions are obsolete
State Form 11865 (R/4-89)

COPY 1. TSD MAIL TO TSD STATE

In case of a spill call the Indiana Office of Environmental Re[illegible] se at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 or 202/426-2675

INA

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

2 4 1337

CFWT

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch typewriter) Form Approved OMB No 2050-0039 Expires 9-30-92

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.: T·N·D·0·6·5·6·3·3·5·4·3 | Manifest Document No.: 4·0·0·2·1

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law but items D, F, H, I and K are required by State law.

3. Generator's Name and Mailing Address
JOHN P SAAD & SONS INC
3655 TROUSDALE DR
NASHVILLE TN 37204-4516
4. Generator's Phone (615 [redacted] 333-0397

A. State Manifest Document Number: INA 0986995
B. State Generator's ID:

5. Transporter 1 Company Name: Robbie D. Wood
6. US EPA ID Number: A·L·D·0·6·7·1·3·8·8·9·1
C. State Transporter's ID:
D. Transporter's Phone: 205-744-8440

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806
10. US EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6
G. State Facility's ID:
H. Facility's Phone: (219)447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Total Wt/Vol.	Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., (D040), 9, NA3077, PG III (D040)	001	DT	47000	P	D040
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: BR5960

K. Handling Codes for Wastes Listed Above: D-81 LANDFILL

15. Special Handling Instructions and Additional Information
CWM Emergency Response Information (800)765-8713
RETURN MANIFEST TO: P.O. Box 4270 CHATTANOOGA TN 37405

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: THE SAAD SITE AS AGENT FOR & ON BEHALF OF STEERING COMMITTEE | Signature: [signature] | Date: Month 12 Day 09 Year 94

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Angie Story | Signature: Angie Story | Date: Month 12 Day 09 Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date: Month Day Year

19. Discrepancy Indication Space
[redacted]

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: | Signature: | Date: Month Day Year

EPA Form 8700-22
Previous editions are obsolete
State Form 11865 (R/4-89)

COPY 1 TSD MAIL TO TSD STATE

INA

In case of a spill call the Indiana Office of Environmental Response at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 or 202/426-2675.

2 4 1333

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but items D, F, H, I and K are required by State law.
I N D 0 6 5 8 3 3 5 4 3	40023		

3. Generator's Name and Mailing Address
JOHN P SAAD & SONS INC
3655 TROUSDALE DR
NASHVILLE TN 37204-4518

4. Generator's Phone (615) 333-0347

A. State Manifest Document Number INA 0986994

B. State Generator's ID

5. Transporter 1 Company Name ROBB'E D. WOOD

6. US EPA ID Number A L D 0 6 7 1 3 8 8 9 1

C. State Transporter's ID

D. Transporter's Phone 205-744-8440

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806

10. US EPA ID Number I N D 0 7 8 9 1 1 1 1 4 6

G. State Facility's ID

H. Facility's Phone (219)447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Total Wt/Vol.	Waste No.
RQ, HAZARDOUS WASTE, SOLID, N.O.S., (D040), 9, NA3077, PG III (D040)	001	DT	47000	P	D040

J. Additional Descriptions for Materials Listed Above
BR5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
CWM Emergency Response Information (800)765-8713
RETURN MANIFEST TO: P.O. BOX 4270 CHATTANOOGA TN 37405

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Date Month	Day	Year
AS AGENT FOR JOHN SAAD & SONS INC		12	09	94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
CRAIG STOY		12	09	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

EPA Form 8700-22
Previous editions are obsolete
State Form 11865 (R/4-89)

COPY 1. TSD MAIL TO TSD STATE

In case of a spill call the Indiana Office of Environmental ponse at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 or 202/426-2675

INA 000004

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

2 4 1339

CFWT

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-92

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.: T·N·D·0·6·5·8·3·3·5·4·3 | Manifest Document No.: H 00223

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but items D, F, H, I and K are required by State law.

3. Generator's Name and Mailing Address
JOHN P SAAD & SONS INC
3655 TROUSDALE DR
NASHVILLE TN 37204-4518

A. State Manifest Document Number: INA 0986993

B. State Generator's ID:

4. Generator's Phone (615) [redacted] 333-0397

5. Transporter 1 Company Name: Robbie D. Wood | 6. US EPA ID Number: A L D 0 6 7 1 3 8 8 9 1 | C. State Transporter's ID: | D. Transporter's Phone: 205-744-3440

7. Transporter 2 Company Name | 8. US EPA ID Number | E. State Transporter's ID | F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806

10. US EPA ID Number: I N D 0 7 8 9 1 1 1 1 4 6

G. State Facility's ID:

H. Facility's Phone: (219)447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Total Wt/Vol.	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., (D040), 9, NA3077, PG III (D040)	001	DT	40000	P	D040
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: BR5960

K. Handling Codes for Wastes Listed Above: D-81 LANDFILL

15. Special Handling Instructions and Additional Information
CWM Emergency Response Information (800)765-8713
RETURN MANIFEST TO: P.O. BOX 4270 CHATTANOOGA TN 37405

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Printed/Typed Name	Signature	Month	Day	Year
AS AGENT FOR ON BEHALF OF THE SAAD SITE STEERING COMMITTEE	Greg V. Wood	1	2	94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Ricky McCauley H40	Ricky McCauley	1	2	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22
Previous editions are obsolete

In r of a spill call the Indiana Office of Environmental Response at 317/241-4336 (day or night) and the Nat. al Response Center at 800/424-8802 or 202/426-2675.

INA 0986993

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

2 4 1640

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

CFWT

PLEASE PRINT OR TYPE *(Form designed for use on elite (12-pitch) typewriter)* Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.: T N D 0 6 5 8 3 3 5 4 3 — Manifest Document No.: H00.24
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H, I and K are required by State law.

3. Generator's Name and Mailing Address:
JOHN P SAAD & SONS INC
3655 TROUSDALE DR
NASHVILLE TN 37204-4518

4. Generator's Phone (615 [redacted] 333-0397

A. State Manifest Document Number: INA 0987001

B. State Generator's ID:

5. Transporter 1 Company Name: RoBBie D. Wood
6. US EPA ID Number: ALD 0 6713 88 91

C. State Transporter's ID:
D. Transporter's Phone: 205-744-8440

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806

10. US EPA ID Number: I N D 0 7 8 9 1 1 1 4 6

G. State Facility's ID:
H. Facility's Phone: (219)447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S.,(D040), 9, NA3077, PG III (D040)	001	DT	47000	P	D040
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: BR5960

K. Handling Codes for Wastes Listed Above: D-81 LANDFILL

15. Special Handling Instructions and Additional Information
CWM Emergency Response Information (800)765-8713
RETURN MANIFEST TO: P.O. BOX 4270 CHATTANOOGA TN 37405

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Printed/Typed Name: THE SAAD SITE AS AGENT FOR AND ON BEHALF OF STEERING COMMITTEE — Signature: [signature] — Date (Month Day Year): 1 20 94

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: FRANK POLETZ — Signature: [signature] — Date (Month Day Year): 7 28 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: — Signature: — Date: Month Day Year

In case of spill call the Indiana Office of Environmental Response at 3 11-4336 (day or night) and the National Response Center at 800/424-8802 or 202/426-2675.

INA 0987001

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

2 4 1341

CFWT

PLEASE PRINT OR TYPE — (Form designed for use on elite (12 pitch) typewriter.) — Form Approved. OMB No. 2050-0039. Expires 4-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.: T N D 0 6 5 8 3 3 5 4 3 — Manifest Document No.: 40025
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H, I and K are required by State law.

3. Generator's Name and Mailing Address
JOHN P SAAD & SONS INC
3655 TROUSDALE DR
NASHVILLE TN 37204-4518

A. State Manifest Document Number: INA 0987002
B. State Generator's ID:

4. Generator's Phone: 615) 383-0397

5. Transporter 1 Company Name: ROBBIE D. WOOD
6. US EPA ID Number: A L D 0 6 7 1 3 8 8 9 1
C. State Transporter's ID:
D. Transporter's Phone: 205-744-8440

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806

10. US EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: (219) 447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Total Wt/Vol.	Waste No.
RQ, HAZARDOUS WASTE, SOLID, N.O.S., (D040), 9, NA3077, PG III (D040)	001	DT	40000	P	D040

J. Additional Descriptions for Materials Listed Above: BR5960

K. Handling Codes for Wastes Listed Above: D-81 LANDFILL

15. Special Handling Instructions and Additional Information

CWM Emergency Response Information (800)765-8713

RETURN MANIFEST TO: P.O. Box 4270 CHATTANOOGA TN 37405

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Printed/Typed Name	Signature	Month	Day	Year
THIS SAAD SITE AS AGENT FOR ON BEHALF OF STEERING COMMITTEE		12	09	94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Rick Lynch	Rick Lynch	12	09	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22
Previous editions are obsolete
State Form 11865 (R/4-89)

COPY 1. TSD MAIL TO TSD STATE

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INA 0987002

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

2 4 1342

CFWT

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Approved OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.: T N D 0 6 5 8 3 3 5 4 3 | Manifest Document No.: 11006 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but items D, F, H, I and K are required by State law.

3. Generator's Name and Mailing Address
JOHN P SAAD & SONS INC
3655 TROUSDALE DR
NASHVILLE TN 37204-4518

A. State Manifest Document Number: INA 0987003

B. State Generator's ID:

4. Generator's Phone (615) 333-0397

5. Transporter 1 Company Name: ROBBIE D. WOOD | 6. US EPA ID Number: ALD067138341 | C. State Transporter's ID: | D. Transporter's Phone: 205-744-8440

7. Transporter 2 Company Name: | 8. US EPA ID Number: | E. State Transporter's ID: | F. Transporter's Phone:

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806

10. US EPA ID Number: IND078911146 | G. State Facility's ID: | H. Facility's Phone: (219)447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Total WT/Vol.	Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., (D040), 9, NA3077, PG III (D040)	001	DT	48000	P	D040
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: BR5960

K. Handling Codes for Wastes Listed Above: D-81 LANDFILL

15. Special Handling Instructions and Additional Information
CWM Emergency Response Information (800)765-8713
RETURN MANIFEST TO: P.O. Box 4720 CHATTANOOGA TN 37405

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: AS AGENT FOR JOHN SAAD & SONS INC SITTING COMMITTEE | Signature | Month 1 | Day 20 | Year 94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Hamp Cason | Signature | Month 1 | Day 20 | Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.

Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22
Previous editions are obsolete
State Form 11865 (R/4-89)

COPY 1. TSD MAIL TO TSD STATE

In case of a spill call the Indiana Office of Environmental Res... at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 or 202/426-2675.

INA 0987003

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

2 4 1343

CFWT

PLEASE PRINT OR TYPE (Form designed for use on elite (12 pitch) typewriter) Form Approved. OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.: T N D 0 6 5 8 3 3 5 4 3 | Manifest Document No.: #00277

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but items D, F, H, I and K are required by State law.

3. Generator's Name and Mailing Address
JOHN P SAAD & SONS INC
3655 TROUSDALE DR
NASHVILLE TN 37204-4518

A. State Manifest Document Number: INA 0987004

B. State Generator's ID:

4. Generator's Phone (615) [redacted] 353-0397

5. Transporter 1 Company Name: DART Trucking

6. US EPA ID Number: OHD 0 0 0 9 8 6 5 8 2 5

C. State Transporter's ID: T737Kooh

D. Transporter's Phone: 215-533-1841

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806

10. US EPA ID Number: I N D 0 7 8 9 1 1 1 4 6

G. State Facility's ID:

H. Facility's Phone: (219)447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Total Wt/Vol.	I. Waste No.
RQ, HAZARDOUS WASTE, SOLID, N.O.S., (D040), 9, NA3077, PG III (D040)	001	DT	44000	P	D040

J. Additional Descriptions for Materials Listed Above: BR5960

K. Handling Codes for Wastes Listed Above: D-81 LANDFILL

15. Special Handling Instructions and Additional Information
CWM Emergency Response Information (800)765-8713
RETURN MANIFEST TO: P.O. Box 4270 CHATTANOOGA TN 37405

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Month	Day	Year
AS AGENT FOR ON BEHALF OF THE SAAD SITES STEERING COMMITTEE	[signature]	12	09	94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Ed Overholt	Ed. Overholt	12	09	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22
Previous editions are obsolete
State Form 11865 (R/4-89)

COPY 1 FOR MAIL TO TSD STATE

In case of a spill call the Indiana Office of Environmental Respc at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 or 202/426-2675.

INA 0987004

...ARTMENT OF ENVIRONMENTAL MANAGEMENT
...OF SOLID AND HAZARDOUS WASTE MANAGEMENT
...O. Box 7035
Indianapolis, IN 46207-7035

2 4 1344

CFWT

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch typewriter)) ...n Approved. OMB No. 2050-0039 Expires 9-30-...

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but items D, F, H, I and K are required by State law.
T·N·D·0·6·5·8·3·3·5·4·3	H0028		

3. Generator's Name and Mailing Address
JOHN P SAAD & SONS INC
3655 TROUSDALE DR
NASHVILLE TN 37204-4515

A. State Manifest Document Number: INA 0987005

B. State Generator's ID:

4. Generator's Phone (615) [redacted] 333-0397

5. Transporter 1 Company Name: DART Trucking
6. US EPA ID Number: O·H·D·0·0·9·8·6·5·8·2·5
C. State Transporter's ID: T737toh
D. Transporter's Phone: 215-533-9841

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806

10. US EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6
G. State Facility's ID:
H. Facility's Phone: (219)447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Total Wt/Vol.	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., (D040), 9, NA3077, PG III (D040)	001	DT	42500	P	D040
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: BR5960

K. Handling Codes for Wastes Listed Above: D-81 LANDFILL

15. Special Handling Instructions and Additional Information
CWM Emergency Response Information (800)765-8713
RETURN MANIFEST TO, PO. Box 4270 CHATTANOOGA TN 37405

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Month	Day	Year
AS AGENT FOR AND BEHALF OF THE SAAD SITE STEERING COMMITTEE		12	09	94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Heidi Schumaker		12	09	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22
Previous editions are obsolete
State Form 11865 (R/4-89)

COPY 1 - TSD MAIL TO TSD STATE

...ase of a spill call the Indiana Office of Environmental Respor ...t 317/241-4336 (day or night) and the ...tional Response Center at 800/424-8802 or 202/426-2675.

INA 0987005

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

2 4 1345

CFWT

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.: T N D 0 6 5 8 3 3 5 4 3 — Manifest Document No. 40029
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H, I and K are required by State law.

3. Generator's Name and Mailing Address
JOHN P SAAD & SONS INC
3655 TROUSDALE DR
NASHVILLE TN 37204-4518
4. Generator's Phone (615) 333-0377

A. State Manifest Document Number: INA 0987006
B. State Generator's ID

5. Transporter 1 Company Name: DART Trucking
6. US EPA ID Number: OHD009865825
C. State Transporter's ID: T737Keoh
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
4636 ADAMS CENTER ROAD
FORT WAYNE IN 46806
10. US EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID
H. Facility's Phone: (219)447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
RQ, HAZARDOUS WASTE, SOLID, N.O.S., (D040), 9, NA3077, PG III (D040)	001	DT	48000	P	D040

J. Additional Descriptions for Materials Listed Above
BR5960

K. Handling Codes for Wastes Listed Above
D-81 LANDFILL

15. Special Handling Instructions and Additional Information
CWM Emergency Response Information (800)765-8713
RETURN MANIFEST TO: PO. BOX 4270 CHATTANOOGA TN 37405

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: THS SAAD SITE AS AGENT FOR & ON BEHALF OF STEERING COMMITTEE — Signature: [signature] — Date: Month 12 Day 09 Year 94

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Chuck Schaefer — Signature: [signature] — Date: Month 12 Day 09 Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Date: Month Day Year

In case of a spill call the Indiana Office of Environmental Response 1 317/241-4336 (day or night) and the National Response Center at 800/424-8802 or 202/426-2675.

INA 0987006

EPA Form 8700-22
Previous editions are obsolete
State Form 11865 (R/4-89)

2 4 1346

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803) 253-6488

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. TND016583354	Manifest Document No. 40030	2. Page 1 of 3	Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
J.P. SAAD Trousdale Site
3655 Trousdale Dr. Nashville TN 37211

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone 615 333-0397

5. Transporter 1 Company Name: ALLEY-CASSETTY Trucking Co.
6. US EPA ID Number: TND982135014

C. State Transporter's ID
D. Transporter's Phone 615-244-7196

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Route 1, Box 255
Pinewood, South Carolina 29125

10. US EPA ID Number: SCD070375985

G. State Facility's ID
H. Facility's Phone (803) 452-5003

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. (RQ) Hazardous Waste, Solid N.O.S, (D040) 9, NA3077 (D040)	001	DT	45000	P	
b.					
c.					
d.					

GENERATOR

J. Additional Descriptions for Materials Listed Above.
a. PW 06058 9101
b. PW
c. PW
d. PW

K. Handling codes for wastes Listed Above

15. Special Handling Instructions and Additional Information
WO# 189566

Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St. S.W., Washington, D.C. 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.
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Printed/Typed Name	Signature	Date (Month Day Year)
As Agent For and On Behalf of The SAAD Site Steering Committee	[signature]	1/21/0 94

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
David Simmons	David Simmons	1/21/0 94

18. Transporter 2 Acknowledgement or Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space
a. lbs. b. lbs. c. lbs. d. lbs.

20. FACILITY Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month Day Year

EPA Form 8700-22 (REV. 9/88) Previous Editions are Obsolete (DHEC 1988 REV. 5/89)

1 - TSD - TO SOUTH CAROLINA

South Carolina Department of Health and Environmental Control

2 4 1347

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803) 253-6488

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039. Expires 9-30-

A. **UNIFORM HAZARDOUS WASTE MANIFEST**	1. Generator's US EPA ID No. TND065833543	Manifest Document No. H0031	2. Page 1 of 3 — Information in the shaded areas not required by Federal law, but by State law.

3. Generator's Name and Mailing Address
J.P. SAAD TROUSDALE SITE
3655 TROUSDALE DR. NASHVILLE TN 37211

4. Generator's Phone (615) 333-0397

5. Transporter 1 Company Name: Miley-Cassetty Trucking Co.
6. US EPA ID Number: TND982135014

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Route 1, Box 255
Pinewood, South Carolina 29125

10. US EPA ID Number: SCD070375985

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone ... 244-7196
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (803) 452-5003

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. (RQ) HAZARDOUS WAST, SOLID N.O.S., (D040) 9, NA3077 (D040)	001	DT	44000	P
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above.

a. PW-06058-9101 c. PW-
b. PW- d. PW-

K. Handling codes for wastes Listed Above

15. Special Handling Instructions and Additional Information

WO# 189567

Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters, and minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St. S.W., Washington, D.C. 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name	Signature	Date Month Day Year
AS AGENT FOR + ON BEHALF OF THE SAAD SITE STEERING COMMITTEE	Greg V Veal	1/2/1/6/9

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year
BOBBY FOUSHEE	Bobby Foushee	1/2/1/0/9

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

FACILITY

19. Discrepancy Indication Space

a. lbs. c. lbs.
b. lbs. d. lbs.

20. FACILITY Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month Day Year

EPA Form 8700-22 (REV. 9/88) Previous Editions are Obsolete (DHEC 1988 REV. 5/89)

1 - TSD - TO SOUTH CAROLINA

South Carolina Department of Health and Environmental Control

2 4 1348

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803) 253-6488

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039. Expires 9-3

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. TNA 0 6 5 8 3 3 5 4 1 3 — MANIFEST DOCUMENT NO 1 0 0 3 2

2. Page 1 of 3

Information in the shaded areas not required by Federal law, but by State law.

3. Generator's Name and Mailing Address
J. P. SAAD TROUSDALE SITE
5615 TROUSDALE DR. NASHVILLE TN 37211

4. Generator's Phone 615 / 333-0397

5. Transporter 1 Company Name: Miley-Cassetty Trucking Co. — 6. US EPA ID Number: TND 9 8 2 1 3 5 0 1 4

Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address — 10. US EPA ID Number

Laidlaw Environmental Services of South Carolina, Inc.
Route 1, Box 255
Pinewood, South Carolina 29125 — S C D 0 7 0 3 7 5 9 8 5

[redacted]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. (RQ) HAZARDOUS WASTE, SOLID N.O.S., (D040) 9, NA3077 (D040)	001	DT	4400	P
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above

a. PW 0 6 0 5 8 9 1 0 1 1 — c. PW

e. PW — d. PW

K. Handling codes for wastes Listed Above

15. Special Handling Instructions and Additional Information

WO# 189568

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name: AS AGENT FOR AND BEHALF OF THE SAAD SITE STEERING COMMITTEE — Signature: Greg Wood — Date: Month 12 Day 19

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Johnny Simmons — Signature — Date: Month 12 Day 10

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day

FACILITY

19. Discrepancy Indication Space

a. lbs. c. lbs.
b. lbs. d. lbs.

20. FACILITY Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Date: Month Day Yr.

EPA Form 8700-22 (REV. 9/88) Previous Editions are Obsolete (DHEC 1988 REV. 5/89)

1 - TSD - TO SOUTH CAROLINA

of
TENNESSEE

NON - HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acct. No. _____
Ticket No. _____

GENERATOR

NO. 08936

Name SAAD SITE
Address 3655 TROUSDALE DRIVE
NASHVILLE, TENNESSEE 37211
Phone No. (615) 333-0397

Generating Location SAME
I.D. No. TN-3304-111794-00320

WASTE CODE	WASTE DESCRIPTION	QUANTITY	UNITS
	MISC. CONSTRUCTION DEBRIS CONCRETE, WOOD, METAL, SOIL	22	T

CODES
D - DRUM
B - BAG
C - CARTON
P - POUNDS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

AS AGENT FOR + ON BEHALF OF THE SAAD SITE STEERING COMMITTEE
GREG V. USAL — AUTHORIZED AGENT'S NAME (PRINT)
11-23-94 — DATE
Greg V Usal — SIGNATURE

TRANSPORTER

Transporter's Name ALLEY-CASSETTY TRUCKING
Address 711 FESSLERS LANE, P.O. BOX 23305
NASHVILLE, TENNESSEE 37202
Phone No. (615) 244-7196
Driver's Name _____
Vehicle's No. _____

I hereby certify that the above named material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11/23/94 — SHIPMENT DATE
Wayne Hedges — DRIVER'S SIGNATURE
11/23/94 — DELIVERY DATE
Wayne Hedges — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name CEDAR RIDGE LANDFILL
Address 2360 MOORESVILLE HWY., LEWISBURG, TN 37091
Permit No. SNE591020238T
Phone No. (615) 359-9032
Time _____

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

NAME _____ DATE _____ SIGNATURE _____

GENERATOR

of
TENNESSEE

NON - HAZARDOUS
WASTE MANIFEST

Customer Acct. No. _____
Ticket No. _____

GENERATOR

NO. 08937

Name EAAD SITE
Address 3655 TROUSDALE DRIVE
NASHVILLE, TENNESSEE 37211
Phone No. (615) 333-0397

Generating Location SAME 2 4 1350
I.D. No. TN-3304-111794-00020

WASTE CODE	WASTE DESCRIPTION	QUANTITY	UNITS
	MISC. CONSTRUCTION DEBRIS CONCRETE, WOOD, METAL, SOIL	22	T

CODES
D - DRUM
B - BAG
C - CARTON
P - POUNDS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

AGENT FOR AND ON BEHALF OF THE STATE OF TENNESSEE COMMISSIONER
GREG V. VIAL
AUTHORIZED AGENT'S NAME (PRINT)

11-23-94
DATE

Greg V. Vial
SIGNATURE

TRANSPORTER

Transporter's Name ALLEY-CASSETTY TRUCKING
Address 711 FESSLERS LANE, P.O. BOX 23305
NASHVILLE, TENNESSEE 37202

Phone No. (615) 244-7196
Driver's Name _____
Vehicle's No. _____

I hereby certify that the above named material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-23-94
SHIPMENT DATE

Jan Stuart
DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name CEDAR RIDGE LANDFILL
Address 2340 MOORESVILLE HWY., LEWISBURG, TN 37091
Permit No. SNE591020238T

Phone No. (615) 359-9032
Time _____

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

NAME

DATE

SIGNATURE

GENERATOR

of
TENNESSEE

NON - HAZARDOUS
WASTE MANIFEST

Customer Acct. No. _____
Ticket No. _____

GENERATOR

NO. 08938

Name SAAD SITE
Address 3655 TROUSDALE DRIVE
NASHVILLE, TENNESSEE 37211
Phone No. (615) 333-0397

Generating Location SAME 2 4 1331
I.D. No. TN-3304-111794-00320

WASTE CODE	WASTE DESCRIPTION	QUANTITY	UNITS
	MISC. CONSTRUCTION DEBRIS CONCRETE, WOOD, METAL, SOIL	22	T

CODES
D - DRUM
B - BAG
C - CARTON
P - POUNDS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

AS AGENT FOR THE CHAIRMAN OF THE SAAD SITE STEERING COMMITTEE
FRED V. VOAL — AUTHORIZED AGENT'S NAME (PRINT)
11-23-94 — DATE
Fred V. Voal — SIGNATURE

TRANSPORTER

Transporter's Name ALLEY-CASSETTY TRUCKING
Address 711 FESSLERS LANE, P.O. BOX 23305
NASHVILLE, TENNESSEE 37202
Phone No. (615) 244-7196
Driver's Name _____
Vehicle's No. _____

I hereby certify that the above named material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-23-94 — SHIPMENT DATE
[signature] — DRIVER'S SIGNATURE
DELIVERY DATE
DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name CEDAR RIDGE LANDFILL
Address 2340 MOORESVILLE HWY., LEWISBURG, TN 37091
Permit No. SNE591020238T
Phone No. (615) 359-9032
Time _____

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

NAME
DATE
SIGNATURE

GENERATOR

of
TENNESSEE

NON - HAZARDOUS
WASTE MANIFEST

Customer Acct. No. _____
Ticket No. _____

GENERATOR

NO. **08939**

Name CAMP SITE
Address 3653 TROUSDALE DRIVE
NASHVILLE, TENNESSEE 37211
Phone No. (615) 333-0397

Generating Location SAME 2 4 1352
I.D. No. TN-3304-111794-00320

WASTE CODE	WASTE DESCRIPTION	QUANTITY	UNITS
	MISC. CONSTRUCTION DEBRIS CONCRETE, WOOD, METAL, SOIL	22	T

CODES
D - DRUM
B - BAG
C - CARTON
P - POUNDS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

AS AGENT FOR AND BEHALF OF THE CAMP SITE STEERING COMMITTEE
CRAIG V VEAL — AUTHORIZED AGENT'S NAME (PRINT)
11.23.94 — DATE
Craig V Veal — SIGNATURE

TRANSPORTER

Transporter's Name ALLEY-CASSETTY TRUCKING
Address 711 FESSLERS LANE, P.O. BOX 23305
NASHVILLE, TENNESSEE 37202
Phone No. (615) 244-7196
Driver's Name _____
Vehicle's No. _____

I hereby certify that the above named material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-23-94 — SHIPMENT DATE
[signature] OK 1114 — DRIVER'S SIGNATURE
DELIVERY DATE
DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name CEDAR RIDGE LANDFILL
Address 2340 MOORESVILLE HWY., LEWISBURG, TN 37091
Permit No. SNL591020238T
Phone No. (615) 359-9032
Time _____

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

NAME
DATE
SIGNATURE

GENERATOR

of
TENNESSEE

NON - HAZARDOUS
WASTE MANIFEST

Customer Acct. No. _____
Ticket No. _____

GENERATOR

NO. 08940

Name SAAD SITE
Address 3655 TROUSDALE DRIVE
NASHVILLE, TENNESSEE 37211
Phone No. (615) 333-0397

Generating Location SAME 2 4 1353
I.D. No. TN-3304-111794-00320

WASTE CODE	WASTE DESCRIPTION	QUANTITY	UNITS
	MISC. CONSTRUCTION DEBRIS CONCRETE WOOD, METAL, SOIL	22	T

CODES
D - DRUM
B - BAG
C - CARTON
P - POUNDS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

AS AGENT FOR & ON BEHALF OF THE SAAD SITE STEERING COMMITTEE
GREG V. VEAL (PRINT) — AUTHORIZED AGENT'S NAME
11-23-94 — DATE
Greg V Veal — SIGNATURE

TRANSPORTER

Transporter's Name ALLEY-CASSETTY TRUCKING
Address 711 FESSLERS LANE, P.O. BOX 23305
NASHVILLE, TENNESSEE 37202
Phone No. (615) 244-7196
Driver's Name _____
Vehicle's No. _____

I hereby certify that the above named material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11/23/94 — SHIPMENT DATE
Wayne Hedin — DRIVER'S SIGNATURE
11/23/94 — DELIVERY DATE
Wayne Hedin — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name CEDAR RIDGE LANDFILL
Address 2340 MOORESVILLE HWY., LEWISBURG, TN 37091
Permit No. SNL591020238T
Phone No. (615) 359-9032
Time _____

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

NAME _____ DATE _____ SIGNATURE _____

GENERATOR

of
TENNESSEE

NON - HAZARDOUS
WASTE MANIFEST

Customer Acct. No. _____
Ticket No. _____

GENERATOR

NO. **08941**

Name SAAD SITE
Address 3655 TROUSDALE DRIVE
NASHVILLE, TENNESSEE 37211
Phone No. (615) 333-0397

Generating Location SAME 2 4 . 1354
I.D. No. TN-3304-111794-00320

WASTE CODE	WASTE DESCRIPTION	QUANTITY	UNITS
	MISC. CONSTRUCTION DEBRIS CONCRETE, WOOD, METAL, SOIL	22	T

CODES
D - DRUM
B - BAG
C - CARTON
P - POUNDS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

AS AGENT FOR & ON BEHALF OF THE SAAD SITE STEERING COMMITTEE
GREG V. VAAL
AUTHORIZED AGENT'S NAME (PRINT)

11-23-94
DATE

SIGNATURE

TRANSPORTER

Transporter's Name ALLEY-CASSETTY TRUCKING
Address 711 FESSLERS LANE, P.O. BOX 23305
NASHVILLE, TENNESSEE 37202
Phone No. (615) 244-7196
Driver's Name _____
Vehicle's No. _____

I hereby certify that the above named material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-23-94
SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name CEDAR RIDGE LANDFILL
Address 2340 MOORESVILLE HWY., LEWISBURG, TN 37091
Permit No. SNL591020238T
Phone No. (615) 359-9032
Time _____

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

NAME

DATE

SIGNATURE

GENERATOR

of
TENNESSEE

NON - HAZARDOUS
WASTE MANIFEST

Customer Acct. No. _____
Ticket No. _____

GENERATOR

NO. 08942

Name SAAD SITE
Address 3655 TROUSDALE DRIVE
NASHVILLE, TENNESSEE 37211
Phone No. (615) 333-0397

Generating Location SAME 2 4 1355
I.D. No. TN-3304-111794-00320

WASTE CODE	WASTE DESCRIPTION	QUANTITY	UNITS
	MISC. CONSTRUCTION DEBRIS CONCRETE, WOOD, METAL, SOIL	22	T

CODES
D - DRUM
B - BAG
C - CARTON
P - POUNDS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law: The each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

AS AGENT FOR & ON BEHALF OF THE SAAD SITE STEERING COMMITTEE
Greg V. Veal — AUTHORIZED AGENT'S NAME (PRINT)
11-23-94 — DATE
Greg V Veal — SIGNATURE

TRANSPORTER

Transporter's Name ALLEY-CASSETTY TRUCKING
Address 711 FESSLERS LANE, P.O. BOX 23305
NASHVILLE, TENNESSEE 37202
Phone No. (615) 244-7195
Driver's Name _____
Vehicle's No. _____

I hereby certify that the above named material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below. ~~As Agent for & on behalf of the Saad Steering Committee~~ GVV

11-23-94 — SHIPMENT DATE
Phillip Piccozzi — DRIVER'S SIGNATURE
11-23-94 — DELIVERY DATE
DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name CEDAR RIDGE LANDFILL
Address 2340 MOORESVILLE HWY., LEWISBURG, TN 37091
Permit No. SNL591020238T
Phone No. (615) 359-9032
Time _____

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

NAME — DATE — SIGNATURE

GENERATOR

of
TENNESSEE

NON - HAZARDOUS
WASTE MANIFEST

Customer Acct. No. _____
Ticket No. _____

GENERATOR

NO. 08943

Name SAAD SITE
Generating Location SAME 214 1356
Address 3655 TROUSDALE DRIVE
NASHVILLE, TENNESSEE 37211
Phone No. (615) 333-0397
I.D. No. TN-3304-111794-00320

WASTE CODE	WASTE DESCRIPTION	QUANTITY	UNITS
	MISC. CONSTRUCTION DEBRIS CONCRETE, WOOD, METAL SOIL	22	T

CODES
D - DRUM
B - BAG
C - CARTON
P - POUNDS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law: Th each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

AS AGENT FOR & ON BEHALF OF THE SAAD SITE STEERING COMMITTEE

GREG V. VEAL — AUTHORIZED AGENT'S NAME (PRINT)
11-23-94 — DATE
Greg V. Veal — SIGNATURE

TRANSPORTER

Transporter's Name ALLEY-CASSETTY TRUCKING
Phone No. (615) 244-7196
Address 711 FESSLERS LANE P.O. BOX 23305
NASHVILLE, TENNESSEE 37202
Driver's Name _____
Vehicle's No. _____

I hereby certify that the above named material was picked up at the Generator site listed above and delivered without incident to the disposa facility listed below.

11-23-94 — SHIPMENT DATE
Donna Ox — DRIVER'S SIGNATURE
_____ — DELIVERY DATE
_____ — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name CEDAR RIDGE LANDFILL
Phone No. (615) 359-9032
Address 2340 MOORESVILLE HWY., LEWISBURG, TN 37091
Permit No. SNL591020238T
Time _____

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

_____ — NAME
_____ — DATE
_____ — SIGNATURE

GENERATOR

of
TENNESSEE

NON - HAZARDOUS
WASTE MANIFEST

Customer Acct. No. _____
Ticket No. _____

GENERATOR

NO. 08944

Name SAAD SITE
Address 3655 TROUSDALE DRIVE
NASHVILLE, TENNESSEE 37211
Phone No. (615) 333-0397

Generating Location SAME 2 4 1557
I.D. No. TN-3304-111794-00320

WASTE CODE	WASTE DESCRIPTION	QUANTITY	UNITS
	MISC. CONSTRUCTION DEBRIS CONCRETE, WOOD, METAL, SOIL	22	T

CODES
D - DRUM
B - BAG
C - CARTON
P - POUNDS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.
AS AGENT FOR & ON BEHALF OF THE SAAD SITE STEERING COMMITTEE

GREG V. VASAL — 11.23.94 — [signature]
AUTHORIZED AGENT'S NAME (PRINT) | DATE | SIGNATURE

TRANSPORTER

Transporter's Name ALLEY-CASSETTY TRUCKING
Address 711 FESSLERS LANE, P.O. BOX 23305
NASHVILLE, TENNESSEE 37202
Phone No. (615) 244-7196
Driver's Name _____
Vehicle's No. _____

I hereby certify that the above named material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11/23/94 — [signature] — 11/23/94 — [signature]
SHIPMENT DATE | DRIVER'S SIGNATURE | DELIVERY DATE | DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name CEDAR RIDGE LANDFILL
Address 2340 MOORESVILLE HWY., LEWISBURG, TN 37091
Permit No. SNL591020238T
Phone No. (615) 359-9032
Time _____

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

NAME | DATE | SIGNATURE

GENERATOR

of
TENNESSEE

NON - HAZARDOUS
WASTE MANIFEST

OFFICE USE ONLY
Customer Acct. No. _____
Ticket No. _____

GENERATOR

NO. 08945

Name SAAD SITE
Address 3655 TROUSDALE DRIVE
NASHVILLE, TENNESSEE 37211
Phone No. (615) 333-0397

Generating Location SAME 2 4 1353
I.D. No. TN-3304-111794-00320

WASTE CODE	WASTE DESCRIPTION	QUANTITY	UNITS
	MISC. CONSTRUCTION DEBRIS CONCRETE, WOOD, METAL, SOIL	20	T

CODES
D - DRUM
B - BAG
C - CARTON
P - POUNDS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.
AS AGENT FOR & ON BEHALF OF THE SAAD SITE STEERING COMMITTEE

GREG V. VEAL — AUTHORIZED AGENT'S NAME (PRINT)
11-23-94 — DATE
Greg V Veal — SIGNATURE

TRANSPORTER

Transporter's Name ALLEY-CASSETTY TRUCKING
Address 711 FESSLERS LANE, P.O. BOX 23305
NASHVILLE, TENNESSEE 37202
Phone No. (615) 244-7196
Driver's Name _____
Vehicle's No. _____

I hereby certify that the above named material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-23-94 — SHIPMENT DATE
Joe Smith — DRIVER'S SIGNATURE
_____ — DELIVERY DATE
_____ — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name CEDAR RIDGE LANDFILL
Address 2340 MOORESVILLE HWY., LEWISBURG, TN 37091
Permit No. SNL591020238T
Phone No. (615) 359-9032
Time _____

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

_____ NAME
_____ DATE
_____ SIGNATURE

GENERATOR

APPENDIX 8

OPERATIONS LABORATORY SERVICES CONSULTATION

ANALYTICAL INDUSTRIAL RESEARCH LABORATORY

4295 Cromwell Road, Suite 614
Chattanooga, Tennessee 37421-2177
(615) 894-8102

2 4 1360

LAB. NO.:941118-18528

CUSTOMER: 1237
SIGNAL ENVIRONMENTAL SERVICES
P.O. BOX 4270
CHATTANOOGA, TN 37405

DATE RECD. : 11/18/94
SAMPLE DATE: 11/17/94

ATTENTION:MICHAEL MATTHEWS
(615) 265-9551 FAX:

DATE REQUESTED: 11/23/94
CUST P.O.:

SAMPLE :SAAD NASHVILLE SAAD SITE
:SAAD11/17001A AIR

ASAP

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ANALYSIS

RECEIVED NOV 2 8 1994

VOC's:	SEE ATTACHED
Phenol	<0.03 ug/L of Air

Notes:

ALL RESULTS RECORDED IN PPM OR MG/L UNLESS OTHERWISE STATED.

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

We hereby certify that the analytical procedures employed are those approved by the Environmental Protection Agency or other applicable methods for these analyses.

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES

By Ray G. Patterson

ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES , INC .
4295 CROMWELL RD, STE 611
CHATTANOOGA , TN 37421-2177
PHONE: (615) 899 - 9301 **FAX : (615) 892 - 9402**

2 4 1331

A.I.R.L. SAMPLE ID : 18528

CUSTOMER: SIGNAL ENVR. SERVICES **CUSTOMER PO :**
SAMPLE: SAAD11/17001A (AIR) **SAMPLE DATE : 11/17/94**

VOLATILE COMPOUNDS

METHOD (SW-846) 8240 **ANALYZED: 11/23/94** **BY: SVG**

COMPOUND	RESULT	MDL	COMPOUND	RESULT	MDL
chloromethane	ND	0.006	**trichloroethene**	**0.032**	0.003
bromomethane	ND	0.006	benzene	ND	0.003
vinyl chloride	ND	0.006	chlorodibromomethane	ND	0.003
chloroethane	ND	0.006	1,1,2-trichloroethane	ND	0.003
methylene chloride	ND	0.003	trans-1,3-dichloropropene	ND	0.003
acetone	ND	0.003	bromoform	ND	0.003
carbon disulfide	ND	0.003	2-hexanone	ND	0.006
1,1-dichloroethene	ND	0.003	**4-methyl-2-pentanone**	**0.010**	**0.006**
1,1-dichloroethane	ND	0.003	1,1,2,2-tetrachloroethane	ND	0.003
1,2-dichloroethene (total)	**0.172**	**0.003**	tetrachloroethene	ND	0.003
1,2-dichloropropane	ND	0.003	**toluene**	**0.016**	**0.003**
chloroform	ND	0.003	chlorobenzene	ND	0.003
1,2-dichloroethane	ND	0.003	ethylbenzene	ND	0.003
2-butanone	ND	0.006	styrene	ND	0.003
1,1,1-trichloroethane	**0.004**	**0.003**	total xylenes	ND	0.003
carbon tetrachloride	**0.029**	**0.003**	1,2-dichlorobenzene	ND	0.003
vinyl acetate	ND	0.006	1,3-dichlorobenzene	ND	0.003
dichlorobromomethane	ND	0.003	1,4-dichlorobenzene	ND	0.003
cis-1,3-dichloropropene	ND	0.003			

ALL RESULTS AND MDL'S IN MICROGRAMS/LITER OF AIR

CALIBRATION CERTIFICATE
SIGNAL ENVIRONMENTAL SERVICES, INC.
900 MANUFACTURERS ROAD
CHATTANOOGA, TN.

DATE

DEC. 19, 1994

EQUIPMENT

AIR SAMPLE PUMP

EQUIPMENT IDENTIFICATION NUMBER

#1

CALIBRATION PERFORMED BY

Michael Mankow / DAN McCLERAN

METHOD USED

CALIBRATION BURETTE

CALIBRATED TO WHAT (FLOW RATE, GAS, ETC.)

FLOW RATE = 1.5 Liters/min

ANALYTICAL INDUSTRIAL
RESEARCH LABORATORIES, INC.
4295 CROMWELL RD., SUITE 611
CHATTANOOGA, TN 37421-2177

Report To:
MICHAEL MATTHEWS
SIGNAL ENVIRONMENTAL SERVICES
POBOX 44270
CHATTANOOGA, TN 37405

Invoice To:
SAME

Chain of Custody Record

Page 1 of 1

PROJECT SITE	PO#	NO. OF CONTAINERS	ANALYSES: VOC's	ANALYSES: PHENOLS	PROJECT #
NASHVILLE					
SITE NAME: SAAD SITE					DATE REPORT DUE: 11-23-94
COLLECTED BY (Signature): Michael R Matthews					VERBAL/FAX/HARDCOPY

FIELD SAMPLE ID	RUSH FACTOR	SAMPLE	DATE/ TIME	NO. OF CONTAINERS	VOC's	PHENOLS	REMARKS	LAB ID NO. (for lab use only)
SAAD111/17001A		AIR	11-17-94 3:45 - 11:45 am	1	X	X		
							AIR VOLUME = 327 Liters	

REMARKS

RELINQUISHED BY:	DATE	TIME
Michael R Matthews	11-18-94	1:30

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
	1-18-94	1:30		1-18-94	207

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

LAB USE ONLY

RECEIVED FOR LAB BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION:
	11/18/94	1407							good

REMARKS

APPENDIX 9

BILL COVINGTON
COUNTY CLERK

700 SECOND AVENUE SOUTH
NASHVILLE, TN 37210

2 4 1363

METROPOLITAN NASHVILLE
AND DAVIDSON COUNTY
BUSINESS TAX LICENSE RECEIPT

RECEIPT NUMBER 258149
BUSINESS NUMBER 70745

OWNER 1
CORPORATION

OWNER 2
GREG V VEAL

MAILING NAME AND ADDRESS

SIGNAL ENVIRONMENTAL SERVICES INC
P O BOX 4270
CHATTANOOGA TN 37405

BUSINESS LOCATION ADDRESS

SIGNAL ENVIRONMENTAL SERVI
3655 TROUSDALE RD
NASHVILLE TN 37211

THIS LICENSE EXPIRES 9/30/1995

Issuance of this license does not necessarily indicate this location is properly zoned.

* MUST DISPLAY UPPER PORTION OF THIS LICENSE. FOLD ON DOTTED LINE.

CLASS 4 BUSINESS

TAX PERIOD

FROM:
TO:

STATE SALES TAX NUMBER:
00000000000000

ISSUE DATE: 10/19/94

Bill Covington
COUNTY CLERK

M Bolden
DEPUTY CLERK

	METRO (U.S.D.)	COUNTY (G.S.D.)
TOTAL GROSS SALES		
LESS DEDUCTIONS		
TAXABLE GROSS SALES		
RETAIL %		
WHOLESALE %		
TAX DUE		
CREDITS		
PENALTY ON TAX DUE		
INTEREST ON TAX DUE		
RECORDING FEE	5.00	5.00
MINIMUM TAX	15.00	15.00
PENALTY ON MINIMUM TAX		
INTEREST ON MINIMUM TAX		
ADJUSTMENTS		
TOTAL TAX DUE	20.00	20.00

TOTAL COMBINED METRO AND COUNTY TAX: 40.00

TAXPAYER COPY

2 4 1366

APPLICATION # 94-20704

PERMIT # _____

FIRE MARSHAL
PLANS REVIEW, CORRECTIONS

NATIONAL FIRE PROTECTION ASSOCIATION CODES - NFPA, 1988 EDITION
700 2ND AVENUE SOUTH NASHVILLE, TENNESSEE 37201

COMPLIANCE WITH THE FIRE CODES DOES NOT IMPLY APPROVAL BY OTHER METRO AGENCIES.

DEVIATIONS SHALL BE RESUBMITTED.

PERIODIC INSPECTIONS ARE REQUIRED BY THIS OFFICE.

INSPECTIONS ARE REQUIRED BY THIS OFFICE TO RECEIVE ANY U AND O'S.

STAMPED PLANS TO REMAIN ON JOB SITE

MAP 133 PARCEL 104

PROJECT REPRESENTATIVE: _____

PHONE: _____

DATE OF REVIEW: 10-18-94

PLANS EXAMINER: T. WALLACE

INSPECTIONS: 862-5230

PROJECT NAME: SAAB SITE (TEMPORARY OFFICE TRAILER)

ADDRESS 3655 TROUSDALE DRIVE	
CODE REQUIREMENTS OR VIOLATIONS REQUIRING CORRECTIONS	
1.	PROVIDE STREET NUMBERS ON FRONT OF BUILDING ORDINANCE NO. 085-882
2.	PROVIDE PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY N.F.P.A.
3.	SPRINKLED BUILDINGS: PLANS SHALL BE REVIEWED BY RON HOLT
4.	NEW BUILDINGS OR ADDITIONS, SHALL PROVIDE LOCATION OF FIRE HYDRANTS AND
	WATER AVAILABILITY AND CALCULATIONS BEFORE CONSTRUCTION. RON HOLT 862-5230
	U + O
	SUBJECT TO FIRE INSPECTOR APPROVAL

2 4 1367

METROPOLITAN GOVERNMENT
OF NASHVILLE AND DAVIDSON COUNTY, TENNESSEE
700 SECOND AVENUE SOUTH, NASHVILLE, TENNESSEE 37201
DEPARTMENT OF CODES ADMINISTRATION

I HEREBY CERTIFY THAT I AM THE AGENT OF THE OWNER, OR OTHER PERSON IN CONTROL OF THIS PROPERTY, AND THAT THE INFORMATION GIVEN HEREIN, AND AS SHOWN ON THE APPLICATION AND THE PERMIT, IS TRUE; AND THAT I AM AUTHORIZED BY SAID OWNER, OR OTHER PERSON IN CONTROL OF THIS PROPERTY, TO OBTAIN THIS PERMIT. I UNDERSTAND THAT IF THE CONSTRUCTION AND/OR INSTALLATION FOR WHICH THIS PERMIT IS ISSUED IS CONTRARY TO THE REQUIREMENTS OF METROPOLITAN CODES OR REGULATIONS, SAID VIOLATIONS MUST BE CORRECTED, AND THE PERMIT MAY BE VOIDED

I FURTHER CERTIFY THAT I AM IN COMPLIANCE WITH THE STATE OF TENNESSEE STATUTES RELATING TO LICENSING CONTRACTORS FOR THE WORK DESCRIBED IN THIS PERMIT.

WORK MUST START WITHIN SIX (6) MONTHS AND MUST BE COMPLETED WITHIN TWO (2) YEARS OF ISSUE DATE. PERMITS BECOME INVALID IF WORK IS SUSPENDED ONE (1) YEAR AFTER START DATE. EXTENSIONS OF NINETY (90) DAYS EACH OF TIME MAY BE ALLOWED IN WRITING BY THE DIRECTOR.

APPROVAL (WHERE REQUIRED)	DATE	SIGNATURE OF APPLICANT	DATE
		X [signature]	10-19-94

[illegible] BUILDING PERMIT AND USE & OCCUPANCY 94-[illegible]

[illegible] PERMIT NO. 94-9940A

[illegible] 133-00-0 104.00   ISSUED 10/19/94   STATUS ~~APP~~ issued

[illegible] AREA 05   [illegible]   APPEAL

[illegible]   FROM UNIT   THRU UNIT   TOTAL UNITS   TOTAL BLDGS

LOCATED ON THE SIDE [illegible]

[illegible] LOT 1 [illegible] SAAD & SON [illegible]
[illegible] SAAD, [illegible]   [illegible]   (615) 265-5551
[illegible] NAME SIGNAL ENVIRONMENTAL SERVICES   (615) 265-9551
[illegible] LICENSE S-HAZA 30107   HOME IMP NO NONE
[illegible] TYPE [illegible] OFFICE   [illegible] W580ZA80585817
[illegible] AA ZONING DISTRICT IN   FLOOD ZONE N ACT TYPE FIN,CONSUL/ADMINIS

[illegible] TO CREATE A TEMPORARY OFFICE TRAILER ON PROPERTY FOR SUPERFUND CLEANU
[illegible]

[illegible]

[illegible]   FIRE ZONE   SEWER/SEPTIC SW   WATER [illegible]   SPRINKLERS N

[illegible]   HEIGHT   KITCHENS   BEDROOMS   GARAGE

[illegible]   ELEC Y   PLUM N   HVAC N   GAS N   LV N

[illegible] OFFICE   CONSTRUCTION TYPE VI   REVIEW   12.50

[illegible] FOOTPRINT AREA   TOTAL AREA

[illegible]   500.00 ACT   ZONING FEE 25.00 TOTAL FEE   62.50
[illegible] NO   CHECK AMT   CSH/DBT AMT   .00
COMMENTS SEE ATTACHED SITE PLAN.
NO PLANS,SUBJECT TO INSPECTORS APPROVAL.

[illegible] ZONING LAK 10/19/94   PLANS [illegible] 10 19/94   PERMIT LAK 10/19/94

[illegible] LETTER REQUIRED FROM [illegible] BEFORE OCCUPYING BUILDING.

2 4 1563

METROPOLITAN GOVERNMENT OF NASHVILLE-DAVIDSON COUNTY
DEPARTMENT OF CODES ADMINISTRATION
INSPECTION CHECKLIST FOR USE AND OCCUPANCY

*** THIS IS NOT A USE AND OCCUPANCY LETTER ***

****
* PERMIT NUMBER 94-09940A *
****

MAP/PARCEL 133-00-0 104.00
LOCATED ON THE SIDE OF 3655 TROUSDALE DR

PERMIT DATE 10/19/94

PROPERTY DESCRIPTION LOT 1. JOHN P. SAAD & SON SUBD

OWNER SAAD, ELLIS & KATHY TELEPHONE (615) 265-9551
CONTRACTOR SIGNAL ENVIROMENTAL SERVICES, INC. TELEPHONE (615) 265-9551

PURPOSE TO LOCATE A TEMPORARY OFFICE TRAILER ON PROPERTY FOR SUPERFUND CLEANU
P.FOR PERIOD OF TWO MONTH.

****
* BEFORE A USE AND OCCUPANCY FOR THIS PROJECT CAN BE ISSUED, THE *
* FOLLOWING APPROVALS ARE REQUIRED. NO USE AND OCCUPANCY WILL BE ISSUED *
* UNTIL ALL NEEDS FOR EACH AGENCY ARE APPROVED. N = NEED, I = IGNORED, *
* A = APPROVED, T = TEMPORARY, R = REJECTED, AND D = DENIED. *
* INSPECTIONS: FOUNDATION - BEFORE CONCRETE POURED; FRAMING - BEFORE *
* COVERING WALL AND AFTER ROUGH-IN INSPECTIONS; FINAL - BEFORE OCCUPANCY. *
****

N	CODES ADMIN	N	FIRE MARSHAL
	BLDG FOUNDATION	N	LIFE SAFETY
	BLDG FRAMING		SPRINKLER
N	BLDG FINAL		
N	ELECTRICAL		
N	ELECT ROUGH IN		
	SERVICE RELEASE		
N	ELECT FINAL		
	GAS/MECH		
	GAS ROUGH IN		
	GAS FINAL		
	PLUMBING		
	PLUMB ROUGH IN		
	PLUMB FINAL		
	HOUSING		
N	ZONING FINAL		
	HVAC ELECT		
	BLDG FLOOR ELEV		
	LV ELEC		

INSPECTION NEEDS MAY CHANGE DUE TO CHANGES DURING CONSTRUCTION.

The Metropolitan Government Of Nashville And Davidson County

Department of Codes Administration
700 Second Avenue South
Nashville, Tennessee 37210

2 4 1369

PERMIT BOND

PERMIT BOND NO. 64S100901251BCA

KNOW ALL MEN BY THESE PRESENTS, THAT WE, THE UNDERSIGNED,

Signal Environmental Services, Inc. S-Hazardous Waste Remediation; BC-31
(Name must be exactly the same as state license if applicable)

Principal, of address 900 Manufacturers Rd., Chattanooga, TN 37405 and Aetna Casualty and Surety, Inc.,

a Surety organized under the laws of the State of Tennessee and authorized to do business in the state of TENNESSEE are held and firmly bound unto THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY ("Metropolitan Government") as Obligee, for the benefit of the Metropolitan Government, and for the benefit of the owners of property on which work is performed by the Principal pursuant to a permit issued under this bond, in the full penal sum of ($ 40,000.00) lawful money of the United States of America. We bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the above bonded Principal has applied to the Metropolitan Government to be registered pursuant to SECTION 11-1-15 of the Metropolitan Code of Laws.

NOW, THEREFORE, this obligation is to secure the following: that the Principal shall in all respects comply with and conform to all laws and ordinances of the Metropolitan Government, relating to building, plumbing, electrical, gas/mechanical, housing, and zoning; that this obligation shall further bind the Principal and Surety for any damage to property of the Metropolitan Government resulting from contracts of the Principal, such as but not limited to streets, roads, curbs, gutters, water and sewer lines, sidewalks, alleys, traffic signs and signals, and for the costs of repairs incurred by property owners resulting from the failure of the Principal to comply with and conform to the above mentioned laws and ordinances of the Metropolitan Government.

The term of this bond is continuous; however, the Surety shall have the right to cancel this bond at any time by a written notice stating when the cancellation shall take effect, and served upon or sent by certified mail to the Director of the Department of Codes Administration of the Metropolitan Government at least thirty (30) days prior to the effective date of the cancellation. Regardless of the number of years this bond may remain in force, the liability of the Surety shall not be cumulative, and the aggregate liability of the Surety for any and all claims, suits or action under this bond shall not exceed the sum of ($).

No right of action shall accrue by reason of this Bond, to or for the use or benefit of any one whatsoever other than the Obligee named herein.

Robert W. Hunter Principal

Aetna Casualty & Surety Company — Surety

Lynn W. Blanchet — Attorney-In-fact

615-756-4452 — Agent's Phone

Affix Seal and
Attach Agent's Power of Attorney

Effective date of bond 11/19/94

By Robert W. Hunter, Signal Environmental Service Inc.

Address 900 Manufacturers Rd., 2nd Floor
Chattanooga, TN 37405

Phone (615) 265-9551

Fax Number (615) 265-9565

Amount of Contract	Bond Required
$ 50,000 and under	$ 10,000
$ 50,001 and over	$ 40,000

State Contractor Information

NOTE: ALL BIDS OR CONTRACTS WITH OWNERS OF $25,000.00 OR GREATER REQUIRES A VALID STATE CONTRACTOR'S LICENSE PURSUANT TO TCA 62-6-102.

NAME OF LICENSEE Signal Environmental Services, Inc. S-Hazardous Waste Remediation; BC-31
(Name must be exactly the same as permit bond if applicable)

EXPIRATION DATE 03/31/95

LICENSE NUMBER 00030107

TYPE OF LICENSE Contractor - Active

LIMITS OF LICENSE $574,000.00

Davidson County Business Tax

Location 3655 Trousdale Dr. No. 94 1944 FI

BUILDING PERMIT

METROPOLITAN GOVERNMENT OF NASHVILLE & DAVIDSON COUNTY

Inclusive of Permits for New Construction, Additions, Alterations, Repairs, Signs, Billboards, Canopies, Marquees, Demolition, Moving of Buildings and Blasting Operations.

DEPARTMENT OF CODES ADMINISTRATION

INSPECTIONS REQUIRED

(Inspections not required on this job are marked out)

1. Foundation Inspection — To be made after trenches are excavated, forms erected and before concrete is poured.

2. Frame Inspection — To be made after the roof, all framing, fire-blocking and bracing are in place and all pipes, chimneys and vents are complete.

3. Final Inspection — To be made after the building is complete and ready for occupancy.

NOTICE

No work may be done on any part of a building or structure beyond the point indicated by each of the inspections.

This permit card must be posted securely, be visible from the street, and be protected from the weather.

Removal, Alteration, or mutilation of this sign until completion of such work, is in violation of the law.

Any permit issued shall become invalid unless the work authorized by it shall have been commenced within six (6) months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of one (1) year after its issuance: provided that for cause, if the work authorized by it is sufficiently under way and is being diligently pursued, one or more extensions of time, for periods not exceeding ninety (90) days each, may be allowed in writing by the director.

In the case of a permit issued to demolish a building or structure, such demolition permit shall become invalid unless the work authorized by it shall have been commenced within thirty (30) days after its issuance or unless the work so authorized shall have been completed within sixty (60) days after work is commenced: provided, that extensions of time may be allowed as provided above.

In the case of the permit being issued to move any building or structure into any residential zone district or residential development, such permit shall become invalid unless the work so authorized has been completed by permanently affixing said building or structure on a foundation within thirty (30) days after the date that the building or structure was moved onto the property located within a residential zone district or residential development. Any person who fails to complete such work within the above-mentioned thirty (30) day period shall be subject to the penalties set forth in section 1-1-7. (64-348, 1, 66-813, 1 Bill No 79-1349, 9, 6-28-79; Bill No. 88-462, 1, 10-4-88).

Map No. 133 Parcel No. 104

Date 10/19 1997

Inspection Of	By	Date
Foundation		
Frame		
Final		
Elect. Rough In		
Elect. Final		
Plumbing Rough In		
Plumbing Final		
Sewer Connection		
Gas/Mechanical Rough In		
Gas/Mechanical Final		
Zoning		
Fire Department Final		

SEE REVERSE SIDE

24 1370

APPENDIX 10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IV
345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

2. 4 1372

January 21, 1995

J. Andrew Goddard
Bass, Berry and Sims
First American Center
Nashville, Tennessee 37238

Dear Mr. Goddard,

The purpose of this letter is to notify the Steering Committee and Alcoa that the OSC, Fred Stroud, has directed them not to fill the area excavated during the groups compliance with EPA's Administrative Order on Consent. Mr. Stroud has requested that the area remain open during the interim period in which EPA seeks continued access and the completion of the removal of the contaminated source material.

Pursuant to EPA's statutory authority and the terms of paragraph 18 of the Administrative Order on Consent docket number 95-1-C the OSC can request the PRPs to do additional work or if they refuse then EPA will carry out the removal. As evidenced by the sampling conducted during the excavation the material is hazardous by characteristic (TCE failed TCLP) and is in contact with the groundwater. The waste material also contains toluene, xylene, vinyl chloride as well as other hazardous substances. EPA's Groundwater Section is of the opinion that this groundwater at the Site is "potential drinking water" and requires protection. The preliminary results of EPA's dye trace substantiates previous studies indicating that the contaminated water from the Saad site is migrating and poses an imminent and substantial endangerment to human health and the environment.

Based on the foregoing, it is the OSC's determination that further removal actions are needed at the site. Therefore, In order to continue the Removal in a cost effective and expedient manner the OSC has asked the PRPs not to fill in the excavation so that continued removal actions would not be delayed in re-excavating the area.

Sincerely

Fred B. Stroud

Fred B. Stroud
Senior, On Scene Coordinator

EXHIBIT H

OVERSIZED

DOCUMENT

1

de maximis, inc.

301 Gallaher View Road
Suite 227
Knoxville, TN 37919

2 4 1574

EXHIBIT 1640

March 7, 1995

VIA FACSIMILE AND FEDERAL EXPRESS

Mr. Fred B. Stroud, On-Scene Coordinator
U.S. Environmental Protection Agency, Region IV
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Reference: **Saad Trousdale Drive Site Phase III Removal Action**
Submission of Final Report

Dear Mr. Stroud:

The Saad Site Steering Committee is pleased to submit the Final Report for the above-referenced project. You will be receiving two (2) copies of the report via overnight courier on March 8, 1995 under separate cover directly from Signal Environmental Services, Inc.

If you should have any questions or comments, please contact Mr. Bennie L. Underwood or me at your earliest convenience at (615) 691-5052.

Very truly yours,
de maximis, inc.

Daniel A. Lovingood, P.G.

DAL/jca

/Enclosures Under Separate Cover

cc: Saad Trousdale Site Repository
Bennie L. Underwood

f:\projects\3034\P_3RPT.CVR

PAPER